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The American Artisan
THE HARDWARE RECORD

Volume 42.—No. 8. CHICAGO, AUGUST 24, 1901. $2.00 Per Year.

Crying—to—do—business—without—advertising—is—like—winking—at—a—girl—in—the—dark;—you—know—what—you—are doing—but—nobody—else—does.

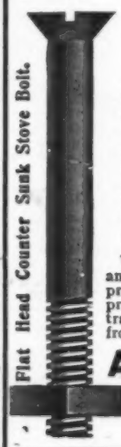
BRADLEY SHELF BRACKETS.
Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

Independent Stove Casters.

Better than a truck, fits any stove without adjustment. No cross arms to interfere when sweeping under stove. For moving or use under stoves ~~on sample~~ floor, blacking room, or warehouse. Enables one man to move a stove. You need this in your business.

Independent Register Co.
158 Champlain St., Cleveland, O.

Our Facilities

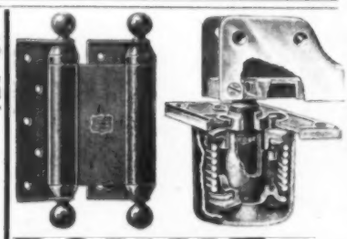


are unsurpassed by any firm in the United States for the manufacture of

Stove Bolts,
Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wires,
Rivets,
Special Bolts,
Mica Bolts,
Cold Pressed Nuts.

We have a large *clientele* among stove men who appreciate our high quality, prompt deliveries and attractive prices. Let us hear from you.

Atlas Bolt & Screw Co.,
Cleveland, O.



BOMMER SPRING HINGES.
BOMMER BROS. BROOKLYN, N.Y.

A UNIVERSAL REMEDY FOR
LEAKY ROOFS.

The valuable qualities of a good roofing cement are firm adhesiveness and elasticity. These qualities the

AMERICAN SEAL BUILDERS' AND ROOFERS'
ELASTIC OIL CEMENT

possesses. It will adhere firmly to Slate or Metal and will not crack or crumble. It is especially recommended for repairing leaks around chimneys, dormer windows, skylights, scuttles, firewalls and any place that requires fixing on a roof, either Slate, Tin or Shingle.

This Cement will answer to repair a roof when Solder can not be used.

MANUFACTURED BY
Wm. Connors Paint Mfg. Co.
TROY, N. Y.
WESTERN AGENTS—J. L. PERKINS & CO.,
241 Lake Street, - - - CHICAGO, ILL.
STOCKHOFF SUPPLY CO., ST. LOUIS, MO.

THIS SPACE FOR SALE
Inquire of Owner,
Daniel Stern, 69 Dearborn St.
CHICAGO.

Black Diamond Files and Rasps.
PERFECT—ALWAYS

Twelve Medals Awarded.

At International Expositions.

G. & H. BARNETT CO.,
Black Diamond File Works. PHILADELPHIA, PA.

Columbus Bolt Works,
Columbus, O.

Bolts,
Nuts,
Washers,
Turn Buckles,
Bridge and Roof Rods
and Bolts

ALL KINDS OF CARRIAGE FORGINGS. CATALOGUE ON APPLICATION.

THE "GLOBE" VENTILATOR.
In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.

FOR PERFECTLY VENTILATING
Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

SMOKY CHIMNEYS CURED.
"Globe Ventilated Ridging"
Send for Pamphlet.

Manufactured by
GLOBE VENTILATOR CO., TROY, N. Y.

BOILERS AND RADIATORS

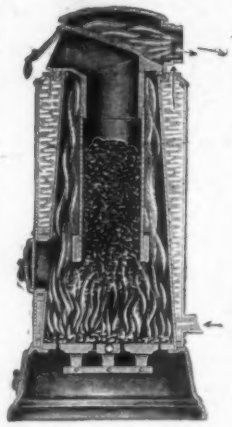
A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

WRITE US TODAY.
New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY

Lake and Dearborn Sts., CHICAGO.

"TABASCO" Water Heaters.



ALL STEEL, SELF-FEED, SHAKING GRATE.

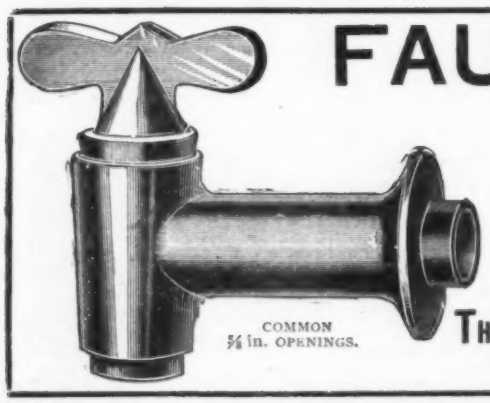
FOR Small Residences, Greenhouses, Flats, Hotels, Baptisteries, Bath Houses, any place a supply of hot water is needed.

SEND FOR CATALOGUE.

Kewanee Boiler Compa'y
Kewanee, Ill.

CHICAGO STORE: 167-169 E. Lake St., CHICAGO.

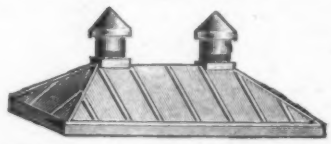
FAUCETS.



COMMON ⅝ in. OPENINGS.

Beer
Milk Can
Oil Can
Cream Separator,
of Various Sizes and Styles.

MF'D. BY
THE CLARK NOVELTY CO.
ROCHESTER, N. Y.



"The Illinois"

METALLIC SKYLIGHTS

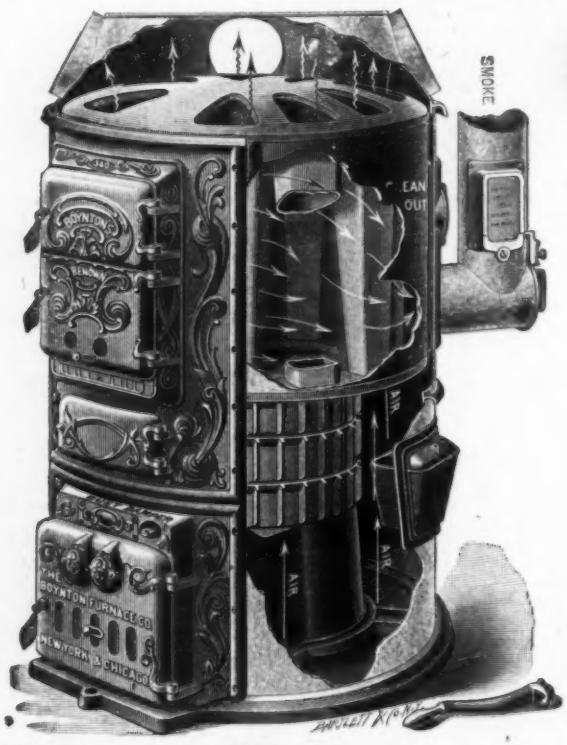
Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free.

J. H. JONES, Mfr.,
Lock Box 33. STREATOR, ILL

C. C. Arbogast, Monterey, Va., writes: "I beg to take advantage of your kind offer of inserting a free want ad. in your journal. Am a regular subscriber to The American Artisan, and I can tell you, without an iota of flattery, that I find it indispensable."

The making of heating apparatus—

Hot Water Heaters, Steam Heaters and Furnaces,



is our Specialty. In over fifty years of experience we have met with about every phase of the heating problem. The manufacture of economical and durable heating apparatus has been our constant aim, and our success has been fully demonstrated by our long continuance in this line.

REMEMBER, efficiency and durability are the sure tests of cheapness.

Catalogues, Price Lists and Discounts cheerfully furnished the trade.

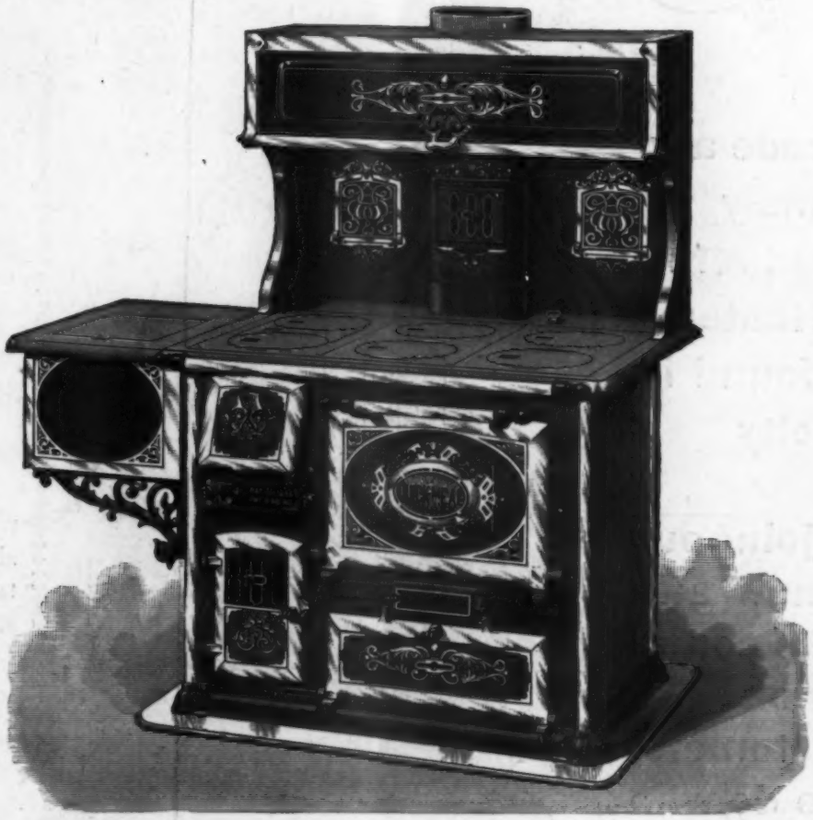
The Boynton Furnace Co.,

New York and Chicago.

QUICK MEAL

ENAMELED STEEL RANGE.

THE RANGE THAT LEADS



A well assorted line of **"Quick Meal" Steel Ranges** on the dealer's floor will add tone to the appearance of his store, attract the eyes of his customers, and make it easy for him to sell.

The special features, such as the Heavy Triple Walls; the Fine Enameled Finish, and the Simplicity of the Reservoirs, places the **"Quick Meal"** dealer in a position where he can show why he has the best Range.

"Quick Meal" Left Hand Reservoirs are a Pronounced Success.

The **Right Hand "Quick Meal" Reservoirs** are made on the same principle.

RINGEN STOVE Co SAINT LOUIS

ESTABLISHED 1847.

Golden N

A Twentieth Centu
With Extra High Ar

High Grade and handsomely decorated Art Parlor Heaters can be found in the Novelty Line.

Better join our Ranks now and enjoy the commendations of your customers, as those do who have sold the Novelty Stoves in the past.

Flue Prog

IN BASE BURNER CON

Fig. 1. Two Flues.

Fig. 2. Circular Flue.

Fig. 1. This shows th used in medium and low pri shows that the heat does no tact with the base and that small, with but little radiatin

Fig. 2. This shows the c adaptation of the two flue co is some improveme but does not all the heat to come in c tact with the outside the base in required ume.

Fig. 3. The best most up-to-date constr tion. The bottom fl force the heat to the c side walls of the ba The air flues have a la radiating surface.

Abram Cox Sto

Chas. A. Rusco, Chicag

BRANCHES: BOSTON, BUFFALO.

ESTABLISHED 1847.

n Novelty

Century Base Burner
gh Art Finish.

Progress

RNER CONSTRUCTION.

Fig. 2.
Circular Flue.

Fig. 3.
Three Flues.

his shows the construction
n and low priced stoves. It
heat does not come in con-
ase and that the air flues are
little radiating surface.

s shows the circular flue, an
he two flue construction that
improvement,
s not allow
o come in con-
the outside of
in required vol-

The best and
-date construc-
e bottom flues
heat to the out-
of the base.
es have a large
urface.

The Flue Construction is the main point in the Golden Novelty. They have fully one-third more radiating surface as compared with any other Base Burner of the same size, and the greatest amount of heat can be obtained from the Novelty Line, with less fuel, than any other Base Burners made.

There are two cold air flues at the back of these stoves, and are so placed in between the hot air flues that they draw the cold air from the floor, and discharge it from the top at an intense heat.

Stove Co., Philadelphia, Pa.

Manager Chicago Branch, 15-17-19 WEST LAKE ST.

FOUNDRIES: LANSDALE AND PHILADELPHIA.

White's Stoves and Ranges ARE LEADERS

White's Superb

For Coal or Wood.

Single Firepot, Inside Ring to protect Drum. Oscillating Hot Blast Tube, Ash Pan, Nickeled Steel Top Ring, Urn, Urn Bottom, Name Plate, Foot Rails and Screw Draft Dampers.

White's Superb, Nos. 14-16-18-20-22.

White's Hot Blast

For Coal.

Mounted with Wood's Planished Steel. Nickeled Steel Top Ring, Urn, Urn Bottom, Foot Rails and Screw Draft Damper. Heavy Cast Top, Cast Base and Bottom, made in one piece; Oscillating Air Blast, Double Fire Pot, with Steel Lining in Upper Part of Drum, Drop Ash Pit Door, Cast Columns on Outside of Drum. Write for Catalogue.

White's Hot Blast, Nos. 16-18-20.

Thomas White Stove Co.

QUINCY, ILL.

Moore's Ranges

Another Nice Thing

about the Hinged Key plate on Moore's Ranges, is shown here.

Besides allowing the woman to roast or broil meats, or make toast, *BY SIMPLY RAISING THE KEY PLATE.*—(See that chain,)

SHE MAY FEED THE FIRE

without having to *SHOVEL IN* the coal,—a much handier plan than the old way.

These Ranges are full of advanced ideas, in Range building—original with the makers; and contain so many good "talking points," that they are known among the dealers who handle them as

"The Easy Line to Sell."

We solicit correspondence.

JOLIET STOVE WORKS,

JOLIET, ILLINOIS.

"Norman" Steel Range

BUILT LIKE A WATCH

ATTRACTIVE.

ECONOMICAL.

DURABLE.

In the **"Norman"** Range are embodied up-to-date features that sell stoves.

The Fire Box is Oval in Shape and of Goodly Dimensions.

Either Duplex or Dockash Grates can be used. Grates removable through end door without removing any fire box linings.

Send for Illustrated Catalogue descriptive of Our Full Line of Steel and Cast Ranges and Heaters.

Calusha Stove Co., Makers, Rochester, N. Y.

Monarch Cinderella

For Hard Coal.

In the Monarch Cinderella will be found one of the most perfect, high grade, medium priced, base burning, double heaters, offered to the trade.

Every modern and desirable improvement is embodied in its construction. We believe the careful buyer will acknowledge that there is not a better stove in its class.

Every point has been studied to make it the best; and for ingenious, effective simplicity in construction, it stands without a peer.

Best Workmanship. Best Materials.

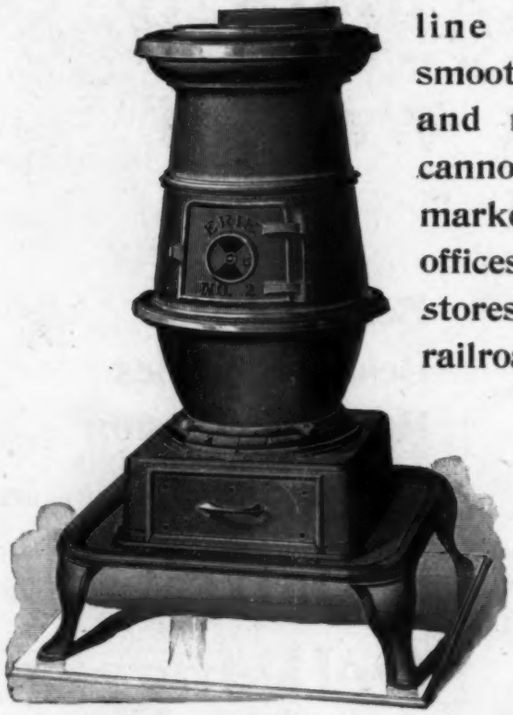
Silver Nickel.

We would be pleased to send our catalogue.

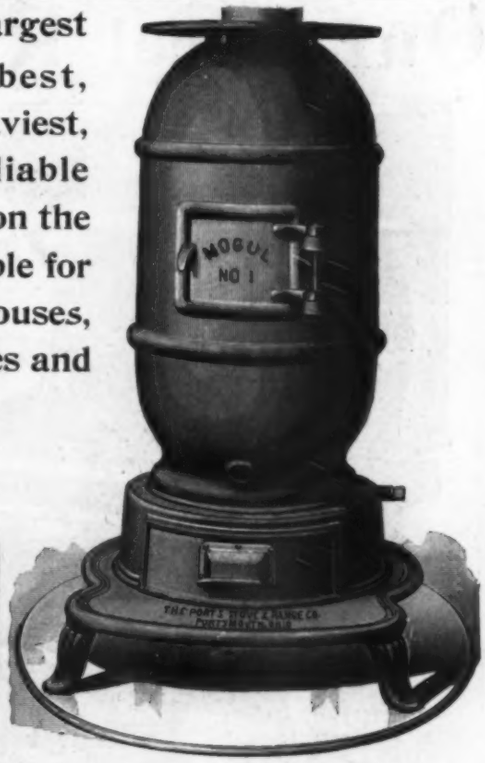
Pittsburg Stove and Range Co.

Pittsburg, Pa.

Western Sales Agent, **W. D. Sager, 38 and 40 Michigan St., Chicago, Ill.**



We make the largest line of the best, smoothest, heaviest, and most reliable cannon stoves on the market. Suitable for offices, school houses, stores, churches and railroad shops.



Write Us.

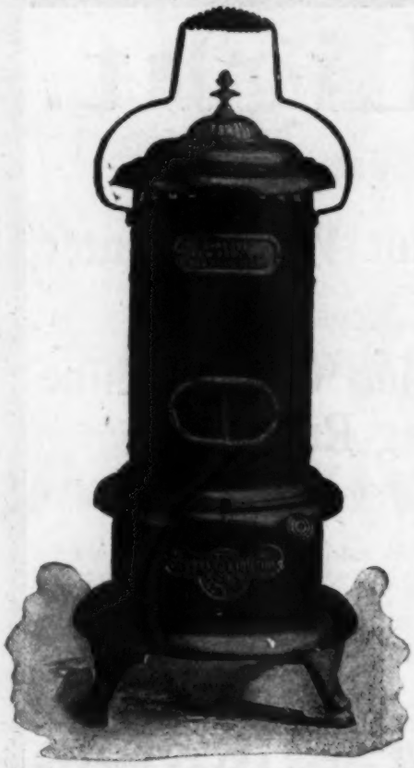
Portsmouth Stove & Range Co.

PORTSMOUTH, O.

MORLEY BROS.

SAGINAW, MICH.

AGENTS FOR MICHIGAN AND THE NORTHWEST.



For Beauty, Simplicity, Convenience and Heating Power, The **Improved "New Process,"** and **"Improved" Standard**

OIL HEATERS

excel all others.

You must order early if you expect to get heaters this year. Our jobbers have them. Booklet ready.

The Standard Lighting Co.

CLEVELAND, OHIO.

Our Steel Ranges and Stoves

Are made under our personal supervision. The management attends to each detail in its several branches.

We employ in the making of our goods the

Best Material
Best Mechanics
Best Supervision

That money can procure.

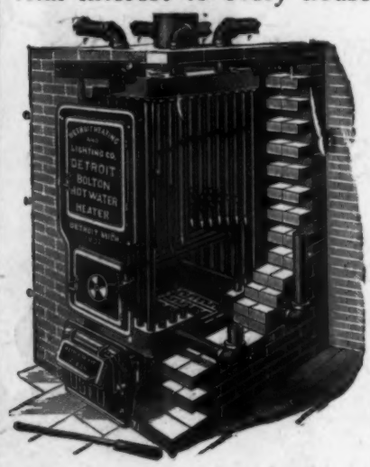
Detroit Steel Range Co.

Factory and Show Room:

13-45 Widman Place,
DETROIT, MICH.

Heat and Light.

Two of the most important factors to home comfort. Two essentials that are of vital interest to every householder.



The Bolton Hot Water Heater

Keeps the home at an even comfortable temperature at all times at small expense.

The Combination Gas Machine and Mixing Regulator

Gives a light stronger than electricity and cheaper than kerosene oil.

The dealer can greatly add to his profits by interesting prospective customers. Can't we send you our catalogues and show you how we can be of service to both you and your trade?

Detroit Heating & Lighting Co.

DETROIT, MICH.

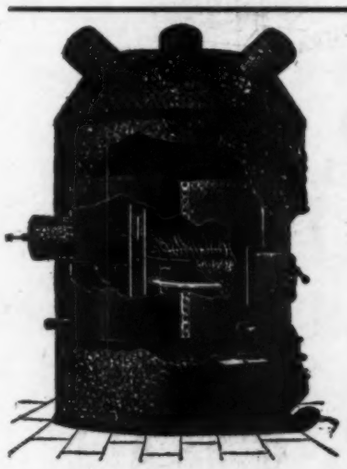
STAR STOVES AND RANGES
ENTERPRISE STOVE CO. VINCENNES, IND.
GUARANTEED

CATALOGUE SHOWING

Gas Ranges
Cast Cooks
Steel Ranges
Cast and
Cast Ranges
Steel Heaters
Steel Cooks
Hot Plates

WILL BE FURNISHED FOR THE ASKING BY

Enterprise Stove Co.
VINCENNES, IND.



Weir Furnace.

Weir ALL STEEL GAS AND SOOT CONSUMING **Furnace.**

The Heaviest Steel Furnace Made.

Absolutely gas and dust tight.
A great heat producer, but a fuel saver.

MADE IN TWELVE SIZES.

"The Handy Furnace Pipe"

The saving of labor in putting it up really makes it the cheapest hot air pipe on the market.

Is Absolu e Safe.

Handy Pipe.

Manufactured by

Meyer Furnace Co.

Send for Catalogue. **PEORIA, ILL.**

No Extra

charge is made to purchasers of our ranges for the name or past reputation. These goods sell on their merits, and the dealer who secures an agency for the

Willard Steel Range

has a range that he can sell at a price that places it within the reach of all classes.

Wm. G. Willard, Mfr.,

619-621 N. Fourth St. St. Louis, Mo.

A Revival of Business

is certain to follow the introduction of **Colebrook's Asbestos Furnace Cement and Stove Putty** in the manufacture of your stoves and furnaces. We do manufacture Asbestos Furnace Cement and Stove Putty for a great many particular people, why not for you as well? Colebrook's Asbestos Furnace Cement and Stove Putty has no equal. Can we not furnish your next order? Put up in all size removable cover cans, tubs, barrels and half-barrels.

Manufactured only by

W. H. COLEBROOK. SONS & CO.
SYRACUSE, N. Y., U. S. A.

CHAS. SMITH CO., Western Selling Agents, 122 Lake St., Chicago, Ill.

Largest Makers of Asbestos Furnace Cement in the World.

Mr. Dealer:

Does not this furnace appeal to your judgment as being a powerful, durable and economical heater? If so, will it not appeal to your customers in the same manner?

Write to-day for our Catalogue and Prices.

NO EXPERIMENT

NONE AS GOOD

MANUFACTURED BY

L. J. Mueller Furnace Co.

Established 1857

Milwaukee, Wis.

Office and Salesroom
191 Reed St.

"EVERYTHING IN THE HEATING LINE."

JEWEL STOVES AND RANGES..

JEWEL STOVES AND RANGES

A Complete, Well Advertised Line;
Low Prices and Good Workmanship.

Please Write for Catalogue.

DETROIT STOVE WORKS.

Detroit - Chicago.

Monarch Furnace

IS ALL CAST IRON
WITH RETURN TOP FLUE.

No "steel" or sheet iron parts to rust out or warp, or JOINTS of a combination of CAST IRON and SHEET METAL to OPEN and allow the ESCAPE OF GAS, SMOKE OR DUST INTO THE AIR CHAMBER.

Do not take our word for it; order a sample furnace, set it up in your shop or store and judge for yourself. If it is not as represented send it back at our expense. As we have almost no expenses in the way of traveling or advertising, we are able to sell the furnaces at a light profit, depending on merit and price to get trade and hold it.

MADE BY

The Forest City Foundry and Manuf'g Co.

CLEVELAND, OHIO.

Gilt Edge Warm Air

AND

Combination Heaters

are leaders embodying points of furnace excellence possessed by no other furnaces. A large variety of sizes and styles, each especially adapted for a certain class of fuel. We are manufacturers of a complete line of warm air registers, safety pipe and tin galvanized iron furnace fittings.

R. J. Schwab & Sons Co.,

MILWAUKEE, WIS.

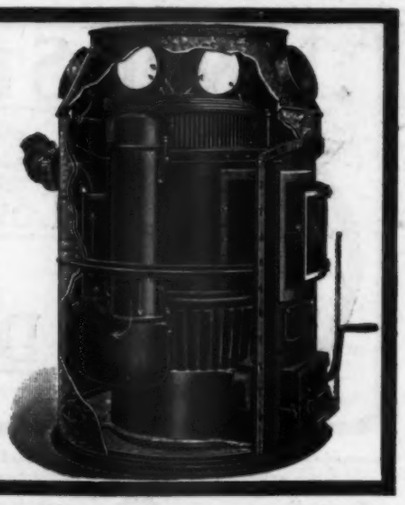
The Hen

with one chicken didn't strut about any more than some furnace makers who make a single furnace which appeals only to a small class of prospective buyers. Shrewd dealers are shaking these small fry makers and are taking agencies for

Floral City Furnaces

which are made in 15 distinct types of warm air and combination heaters for any class of work or any kind of fuel. Write for agency.

MONROE FOUNDRY & FURNACE CO.,
MONROE, MICH.



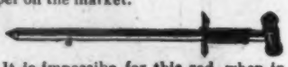
BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogs.
MILWAUKEE, WIS.

The YANKEE Hot Air DAMPER (Improved) All Steel.

Above All, Cheapness—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest working and neatest damper on the market.

ROD POINTS: Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ¼-inch cold-rolled steel and slips into damper very smoothly. **Sample sent to any dealer without charge.**



It is impossibe for this rod, when in position, to move either way.

The S. M. HOWES CO., Manufacturers, 40-46 Union St., **Boston, Mass.**

NEW YORK: A. L. Canfield, 248-286 Pearl St. CHICAGO: Excelsior Steel Furnace Co.

Sizes: 6, 7, 8, 8½, 9, 10, 10½, 11, 12, 12½, 14, and 15.

Emperor Furnaces

For Wood

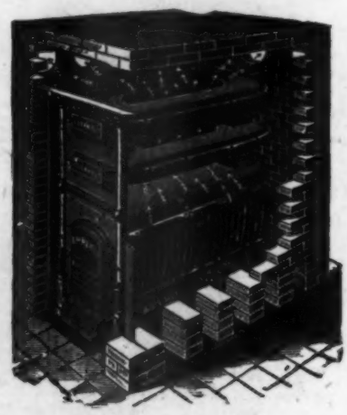
Simple. Safe. Durable.

The Best and Cheapest Line of Wood Furnaces.

Furnished for Either Brick or Galvanized Iron Casing. Send for Catalogue.

Bergstrom Bros Co

Neenah, Wis.



Wisconsin Furnaces

stand for the best in furnace construction. They have features which make them trade winners.

Get our prices and printed matter.

Phipps Furnace Co.,

135 ONEIDA ST., MILWAUKEE, WIS.

DON'T READ THIS

Unless you are interested in down-to-the-minute advertising. Have had over 15 years' practical advertising experience with some of Chicago's most successful Manufacturers, Jobbers and Retailers. Am at present engaged with a very large advertiser, but have time to spare and will do a limited amount of work for any one who desires first-class ADVERTISING SERVICE at very reasonable rates. Write for further Particulars.

FRANK. E. RUBOVITS,
233 Fifth Avenue, - - Chicago, Ill.

The Hero Furnaces

are the best for a cold climate.

Our water attachments can be used in any furnace.

Can furnish repairs for any furnace.

Western Agents for Colebrook's Asbestos Furnace Cement and Paper, Stove Putty and Other Leading Specialties.

The Chas. Smith Co.

122 Lake St., Chicago.

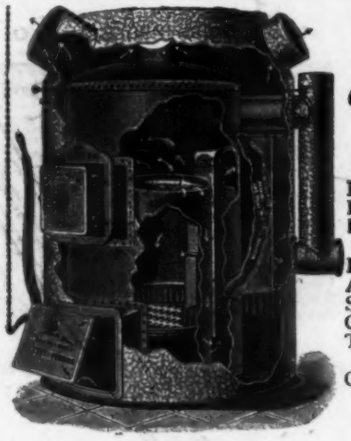
Ohio and U. S.

Wrought Steel Ranges

We are pioneers in steel range business; old in experience yet adopt modern up-to-date methods. Write for our catalog.

Tinnerman Steel Range Co.,

CLEVELAND, O.



No. 48 "Quaker."

POINTS OF EXCELLENCE.

Large Feed Door.
Immense Vertical Heating Surface.
Heat Equally Distributed Over All the Heating Surface.
Heating Surface Absolutely Gas Tight.
A Lined Furnace. Straight Basket Grate.
Simple in Construction.
Can be Controlled in the Mildest Weather.
The Cheapest Heavily lined Steel Furnace on the Market.
Can Be Put in a Low Cellar.

Large Stock. Prompt Shipments. Low Prices.

Wireton Heating Co.,

MAIN OFFICE AND WORKS: Blue Island, Ill.

CHICAGO OFFICE: 40 Dearborn St.

Registers and Ventilators.

A Full Line, Unique Designs

Quality and finish unexcelled. All styles of finish, from Japanned to Gold Plated.

Send for Catalogue.

The Philadelphia Hardware and Malleable Iron Works

Philadelphia, Pa.

Royal Heaters.

MANUFACTURED BY THE

HART & CROUSE CO.

UTICA, N.Y.

ALL THE LEADING LINES OF

STEAM, HOT WATER & HOT AIR,

FOR HEATING ALL CLASSES OF BUILDING.

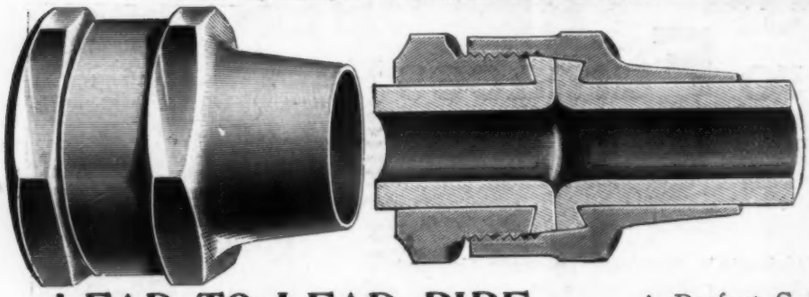
235 WATER ST. N.Y. COLUMBUS, O. BRANCHES. 79 LAKE ST. CHICAGO. ST. LOUIS.

Geo. Schmidt, East Williston, N. Y., writes: "I think THE AMERICAN ARTISAN is the best magazine printed, as it gives the prices of hardware every week, and I can keep posted on the prices."

W. F. Rehbein, Grays Lake, Ill., writes....

"Your Journal is certainly a valuable paper for every tinner to have. From one notice in your paper I received from one to four letters per day. Please take out my notice as I have got a job, thanks to the American Artisan."

Patented May 28th, 1901. See Advertisement in Next Issue.



Novelty Couplings

Lead to Lead and Lead to Iron or Copper.

LEAD TO LEAD PIPE. A Perfect Substitute for Wiped Joints.

Water Back, Faucet, Boiler Couplings, Etc.

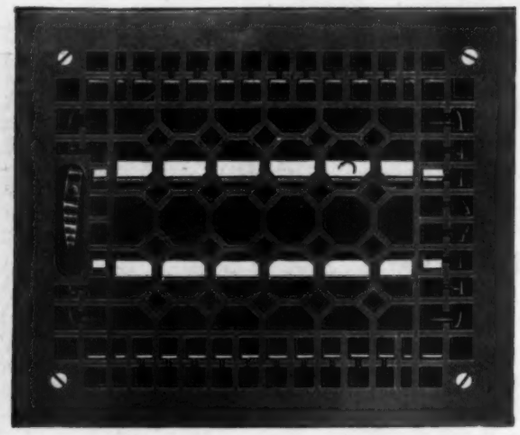
SEND FOR COMPLETE CATALOGUE

The New Haven Novelty Machine Co., New Haven, Conn., U.S.A.

OUR LINE OF

REGISTERS

WILL INTEREST THE TRADE.



Write Us For Prices. They Will Certainly Interest You.

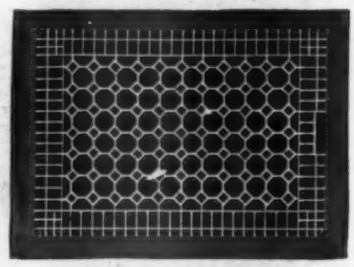
The Fanner Mfg. Co.

CLEVELAND, O.

Henry & Scheible Co.

SUCCESSORS TO T. E. HENRY.

10 Long St. CLEVELAND, O.



ALL SIZES—ALL STYLES OF FINISH. PROMPT SHIPMENTS

Quality and finish unexcelled.

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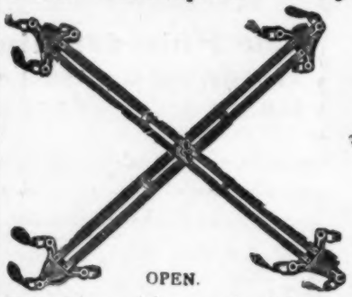
The "Eclipse" Adjustable Stove Truck

Made entirely of Steel and Malleable Iron.



OPEN.

CLOSED.

It is light, neat, and at the same time strong and durable. Will last a lifetime and saves its cost annually in preventing breakages, as it is impossible to tip or shove a stove from the ECLIPSE TRUCK.

Stellwagen & Kynoch, St. Ignace, Mich.

Modern Sanitary Plumbing, Steam and Hot Water Heating.

A veritable encyclopedia of practical plumbing, written by James J. Lawler, the well known heating and plumbing expert; 400 pages large octavo, 6x9 inches in size. Describes and illustrates methods of plumbing as constructed at the present date. Tells how to correctly figure on any size or shape of building with steam or hot water. Tells how to find the heating capacity of any shape or make of boiler for steam or hot water heating. The illustrations are numerous. An invaluable work for practical men . . . . . .

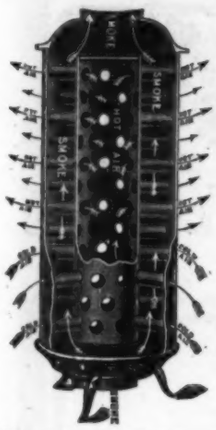
Price $5.00.

Sent postpaid on receipt of price by

Daniel Stern,

69 Dearborn St., Chicago.

C. R. SIPES, Arkansas City, Ark., writes: "We could hardly keep house without The American Artisan."

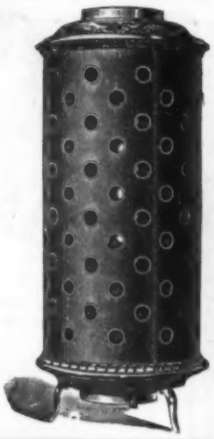


COUNT THE TUBES

IN THE

Rochester Radiator

and you will comprehend the great radiating surface directly over the hot current where one square inch is better than six at the side.



Rochester Radiator Co.,

120 Furnace St., Rochester, N. Y.

Your Customers are Attracted

by a money saving, money making article. **The New Era Radiator** is "it." It captures escaping dollars for seller and buyer.

It saves money for your customers by using heat that would otherwise be wasted.

It makes money for you, by making your store known as a progressive establishment.

Every one of your customers needs a New Era Radiator, but doesn't know it. You can make good profits by showing it—it speaks for itself.

Write for prices and terms.

WILMOT CASTLE & COMPANY,

77 Elm St., Rochester, N. Y.

Showing Double on Second Floor.

The Auer Side Wall Register

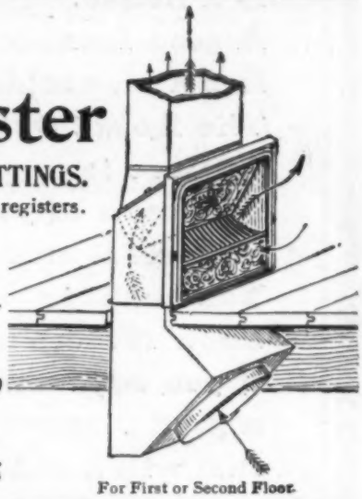
TAKES LESS PIPE, WALL STACKS and FITTINGS.

Includes Register Box, hence is cheaper than common registers.
No Mutilation of Carpets.
No Discoloration of ceilings.
Affords Perfect Ventilation.
Made in Nine Sizes.
Send for Circulars.

Auer Register Co.,

TOLEDO, O.

WIRETON HEATING CO., Chicago, Agents for Illinois.
PHILLIP GROSS HARDWARE CO., Milwaukee, Agents for Wisconsin.



For First or Second Floor.

The B. O. E.

(Best on Earth)

Sad Irons,

Potts Pattern.

This is the best finished and best iron ever made, and while it costs more than the common Potts iron, it is worth double the price asked for it.

The Schreiber & Conchar Mfg. Co.,

Manufacturers of Hardware, Dubuque, Ia.

F. W. CARLEY,
Hancock, Wis.,
Writes:

"I received your paper this morning also more letters than I have got time to answer. I will ask you now to please take out my ad, as I have a position now, as tinsmith. I am well pleased with the paper, and am very thankful for the information I have received from it. Every tinner should take it. A man could not afford to be without it for the small price it costs."

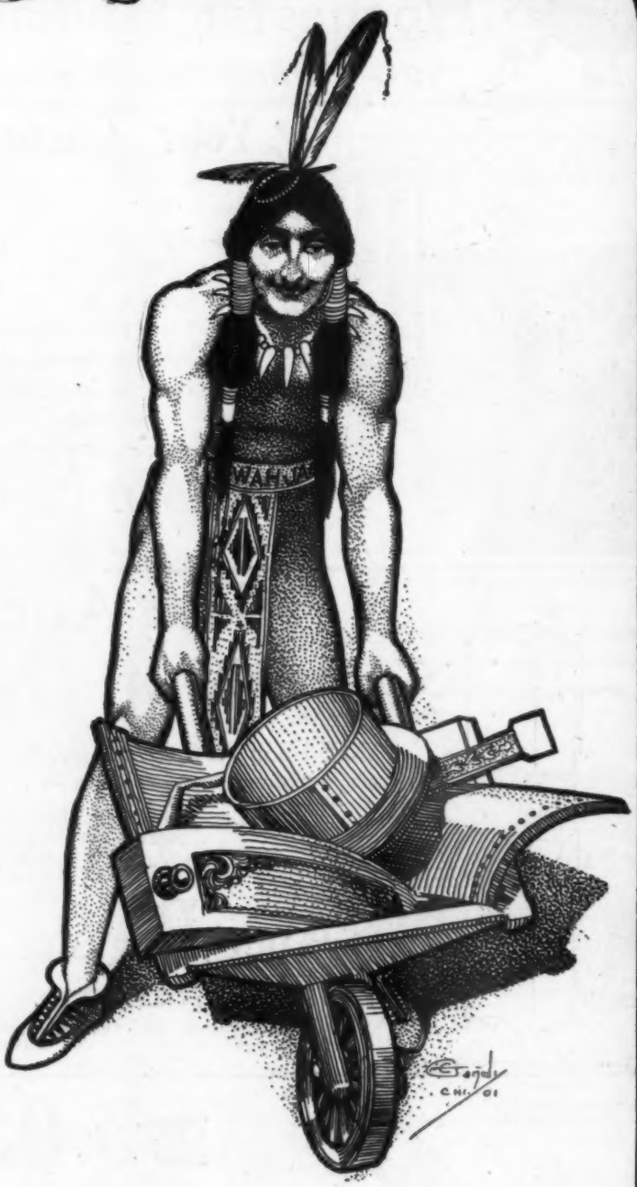
ROUND OAK—STANDARD of AMERICA

CURTIS GANDY CHI. 1900

A collection of
iron plates and
castings is

No more a furnace than a pile of bricks and stone

is a house.
A good furnace
is not an accident.
The *Round Oak*
furnace is
the result of years
of careful study.
You ought to
know it thoroughly
if you appreciate
a good furnace
that will build up
enduring business.



Estate of
P. D. Beckwith, Dowagiac, Mich.

34 MAKERS OF GOOD GOODS ONLY.

ESTABLISHED 1880

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

Terms of Subscription in the United States, their Possessions, and Canada, (invariably in advance): One Year, Postage Paid, $2.00.
In Foreign Countries, Except Canada, One Year, Postage Paid, $4.00.

Address all Letters, communications and remittances to

DANIEL STERN, President American Artisan Press,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.

This Paper is a Member of the Chicago Trade Press Association.

CHICAGO, AUG. 24. 1901.

THE national death rate has decreased nearly 10 per cent in the last 10 years. These figures bear eloquent testimony to the advance in medical science, and still more to the value of improved methods of sanitation and precaution against disease in cities.

THE United States now stands third in the list of coal exporting countries of the world. The coal export figures of the principal countries of the world in 1899 show that while Belgium slightly exceeded the United States in the total number of tons exported, her imports were more than one-half as great as her exports, making her net exportation of coal much less than that of the United States.

THE claim is made that the introduction of automatic machinery has had the effect of changing the intelligent, self-respecting hand worker into a mere mechanical adjunct. To one, however, who has the slightest spark of the living fire of imagination, an automatic machine is a liberal education and an inspiration, the daily association with which must of necessity augment his knowledge, cultivate his perceptive faculties, and stimulate his intelligence.

THE utility of peat is being recognized more and more. As a cheap fuel, peat is of interest owing to the high price of coal; there are vast deposits of it all through the temperate zone, and especially in this country and Canada. Peat cannot compete successfully as a fuel with anthracite coal, because, in proportion to its heating value, it is of greater bulk, and thus its transportation is dearer; but with the desirability, and perhaps necessity, of using peat, a solution must come in the near future to the problem of so saturating and compressing it into bricks that it can be used as an efficient substitute for the costly coal. Already machines have been constructed for mining peat with facility, and it has been put to a variety of industrial uses. From it, in Austria, a patent artificial wood, known as peat wood, has been made. This possesses the advantage of hardening steadily when inserted in moist soil, owing to the formation of calcerous hydro-silicite of alumina. As a street-paving material it is free from dust, and is noiseless and durable. Peat-wood sleepers for railway use are found to be satisfactory, and screws, rivets, and nails become as firmly fastened therein as in the best oak whilst the damp soil hardens the wood.

Retail Co-Operation.

Retailers in all lines will watch with deep interest the latest move of the Superior, Wis., Grocers' Protective Association. They already maintain a card price system and an effective credit plan, and are now at work on the details of a central delivery agency for all the members of the organization. If this is satisfactorily consummated, the grocers will sell their horses and delivery wagons and the central delivery agency will deliver all goods for them.

The growth of the great idea of retail co-operation has been very slow, but so great are the benefits that can be derived from such a course that in ten years merchants in all lines will undoubtedly be enjoying the fruits of co-operation to an extent undreamt of today. Hardware dealers by bunching purchases with competitors can get the advantages of carload freight rates. Chicago hardware men have shown what possibilities co-operative buying offers. If co-operative delivery is feasible for grocers, it certainly is very easy for hardware dealers. Take a city of 10,000 inhabitants, and there is no question but that hardware men, by adopting a co-operative delivery system, would save money.

Merchants are beginning to see the advantages of a common credit system, and the day is not far distant when the dead-beat's path will be a thorny one. An interchange of credit information between merchants will do more to prevent credit losses than the most rigid garnishee laws it is possible to pass.

In the Aug. 17 issue of THE AMERICAN ARTISAN there appeared a number of letters urging co-operation on the part of hardware dealers to secure anti-range peddler legislation. Don't you, Mr. Dealer, honestly think that if the hardware men of your state should take a strong pull, a long pull and a pull all together they could secure the enactment of an anti-peddler law that really protected the local merchant? The value of co-operation in preventing jobbers and manufacturers from selling department stores, catalogue houses and consumers is quite generally recognized by retail hardware dealers. The attendant at any meeting of a state hardware association can see that the dealers present are keenly alive to the necessity of co-operation in this point. Now, if you, Mr. Progressive Hardware Merchant, will pay your quota towards sustaining a state and also a national association, for the sake of retail co-operation along the important line of preventing jobbers and manufacturers selling their goods through illegitimate channels, why don't you try a little co-operation with the hardware merchants of your city and of your state along a number of other lines in which co-operative effort bids fair to prove eminently helpful?

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

IT is a poor paper that cannot scare up a department of United States Steel Corporation rumors these days. I learn that Schwab and Morgan are at loggerheads and Schwab is going to devote all his attention to the Bethlehem Steel Co., in which he has secured a controlling interest. In another paper I find a statement that Morgan is going to give his employes a million shares of United States Steel Corporation common stock. I also learn that Schwab has turned his controlling interest in the Bethlehem Steel Co. over to Morgan. I learn that the Amalgamated Association of Iron, Steel and Tin Plate Workers must shortly throw up their hands. I also learn they are gaining ground every day. Of course, for every rumor there a couple of denials, and so the multiplication of rumors proceeds.

* * *

A NEW YORK daily, whose chief characteristic is subserviency to the trusts, is howling to have the Sherman anti-trust law of 1890 emasculated. Slight as is the protection afforded us against the rapacity of unlawful combinations of capital by this law, yet it seems the journalist parasites of some of the combines would take this away from us if they could. Those who advocate the removal of all restrictions from trusts even take issue with the axiom that competition is the life of trade.

* * *

I TAKE my hat off to the general superintendent of the Chicago, Milwaukee & St. Paul R. R., who has recently declared war on the railroad hog.

* * *

SOME day some genius will devise some improved method of manufacturing turpentine. The present method is to chop in the side of the tree about two feet or three feet from the ground what is known as a "box," and into which the gum flows and collects, and is later dipped out by the gatherers. From time to time the tree is "chipped off" above the box until the whole side within ground reach is cut away. The same process is then followed on the opposite side, so that by the time this is finished the tree is done for. This process is gradually devastating the forests, as the trees either die or are so damaged as to be fit for nothing but lumber, and poor lumber at the best.

* * *

EVERY one is attacked at intervals with a desire to flee far from the madding crowd. But the chains of isolation last but a while, and the gregarious instinct reasserts itself. So inherent is this instinct in human nature that even communities find extended segregation a practical failure. This is proven by the experiences of the Zoarites in Ohio, who, after over 80 years of communistic living, are rapidly dwindling in membership. After studying their history for the lesson involved, the Boston Transcript reaches this conclusion:

"Zoar has lasted for nearly three generations, because its people supposed that they possessed all that existence had to offer. But as soon as the light shone in upon them and the scales fell from their eyes, it was plain even to their slow comprehensions that food and raiment and shelter were after all but small fractions of life. Then communism went to pieces, and its elements have begun to be absorbed by the great ocean of humanity. Perhaps these experiments have a moral value. At any rate they teach the lesson that absorption, not separation, is the natural destiny of man.

* * *

THE English industrial world is deeply interested in the recent judicial decision in the case of the Taff-Vale Railway vs. the Amalgamated Society of Railway Servants. This decision holds that "if the legislature has created a thing which can own property which can employ servants, which can inflict injury, it must be taken to have implicitly given the power to make it suable in a court of law for injuries purposely done by its authority and procurement. While, in the case at issue, this decision is a set-back for the unions, it must eventually prove of material assistance to these bodies, as it gives them a legal recognition. This recognition, while it will prove a death blow to riotous and demagogic outbreaks, will prove a help to the unions in giving them a standing in making contracts, etc., which they do not have at the present time.

* * *

SENSATIONAL scientists are having an inning these days, and some of the new-fangled ideas sprung on the public are absurdly *outre*. Grafting snakes is a pretty device, but curing lockjaw with infusions of rabbits' brains savors of some of the prescriptions of the physicians of the middle ages. Our friends, the three witches, might well have added rabbits' brains to their famous decoction, and I have not the slightest doubt some bookworm will unearth this lockjaw remedy from black letter tomes, where it has hidden since the earliest days of magic and witchcraft.

* * *

M. JULES HENRIVAUX, the glass manufacturer of St. Gobain, France, has predicted that the new age will be the age of glass. M. Henrivaux is an enthusiast on glass, and if his visions are realized we shall all be living in glass houses before very long. Imagine, with M. Henrivaux, the construction of a glass house. The foundations and the walls would be constructed of a variety of glass, recently invented, called "stone glass," which has already successfully withstood the severest tests. When crushed it gives a resistance three times as great as granite, and upon being subjected to heat and cold is found less sensitive than steel. If submitted to friction it shows less wear than porphyry. Shock, as of a hammer blow, it resists to a degree twenty-two times as severe as that which would fracture marble. The walls, then, would be built of glass held together by angle iron so as to permit of a hollow space through which pipes could pass—the pipes themselves being glasswork—conveying hot air, hot and cold water, gas, electric wires, drains, and everything needed for the health and comforts of the inhabitants. Stairs and balustrades, ceilings and wall decorations, mantelpieces and fire places would all be constructed of glass. It could be washed from the top story to the basement without a trace of humidity being left. Dust could not collect on its polished face, and the spider would find no place on which to hang its cobwebs.

When the glass age arrives the death penalty will no doubt be inflicted on small boys who throw stones.

News Siftings.

The Girard Stove & Foundry Co., is a new Girard, O., concern, who will manufacture stove repairs.

The Cambria Steel Co. and the Conemaugh Steel Co. have consolidated.

A press dispatch from Columbus, O., states that a fire in that city Aug. 17 destroyed the plant of the Moon Stove & Range Co.

J. E. Burleson, Spruce Pine, N. C., is president, and L. J. P. Cutlar, of Marion, N. C., is secretary of the J. E. Burleson Mica Co., Spruce Pine, N. C.

H. W. Hartman, W. S. Huntley, S. A. Roelofs, H. W. Mitchell and H. M. Whittaker are the incorporators of the Pennsylvania Stove Co., Pittsburg, Pa.

It is reported that the Republic Iron & Steel Co., the strongest rival of the United States Steel Corporation, will shortly be taken in by this latter concern.

It is rumored that John D. Rockefeller, the Rothschilds, Senator Clark and the Boston clique who own the Calumet & Hecla, are going to pool issues and control the copper output of the world.

Jewett & Co., Buffalo, N. Y., have on exhibition at the Pan-American Exposition a stove made from the same patterns as one Mr. Kreigh, a Springfield, Ill., stove dealer sold to Abraham Lincoln in 1859.

E. H. Knapp, W. F. Giles, J. M. Merritt, George S. Porter Jr., and M. E. Parker are the incorporators of the Los Angeles Stove & Manufacturing Co., Los Angeles, Cal., capitalized at $25,000, for the manufacture of stoves and ranges.

Wm. Haylor, Belvidere, Ill., manufacturer of Haylor's "Hold Fast" stove pipe fastener, was a recent caller at THE AMERICAN ARTISAN office. Mr. Haylor's business card gives ten reasons why every stove user should have one of these fasteners.

Ayling Bros., Department A, 14 Haddon avenue, Chicago, are manufacturers of the new A-B dealers' stove polish. This is made dry and can be thinned as is wished. It keeps in any climate, mixes very quickly and is put up in 5 pound boxes.

George J. Fanner, with the Fanner Manufacturing Co., Cleveland, Ohio., was a recent caller at THE AMERICAN ARTISAN office. Mr. Fanner reports the outlook for stove trimmings as very good, and says that his firm is very busy in supplying the demand for their specialties in this line.

The Enterprise Stove Co., Vincennes, Ind., manufacture a superior line of gas ranges in their Star Progress, Star Imperial and Imperial. The main body of the Star Progress is made of heavy smooth cold rolled steel, of very tough, strong texture, and it is enameled inside and out with the best quality of baking enamel. This body is lined with steel with a dead air space between, in which is a lining of asbestos board. At a distance of one inch from the body lining on the sides are the solid oven ribbed sides, which form flues to carry the heat from the oven burners to the oven. The nickeled parts consist of name panel, door handles, valve handles, pipe and pipe hangers.

The Gobeille Pattern Co., Cleveland, O., in an artistic advertisement in the shape of a blotter sent out under cover of Aug. 10, say: "In THE AMERICAN ARTISAN of August 3, is a notable review of the furnace business. Of the reports printed we wish to say this: Those manufacturers using our patterns, without exception, reported the business outlook good. And, as we glanced at the pictorial representations of their furnaces: 'Prizer Marvel' (page 35), 'Etna' (page 73), 'Schill's New Idea' (page 74), and others, we said, in our usual modest manner: 'Verily, Wisdom is justified of her children.'"

The John Van Range Co., Cincinnati, O., are manufacturers of Van's patent improved wrought steel portable ranges and all kinds of implements for culinary purposes for hotels, public and private institutions, restaurants, steamships, steamboats and private families. They make a portable brick range in which the flues on end and bottom are lined with fire brick one inch thick, and are held in place by iron cleats. The casing is thus protected by fire tile on the inside and cold air on the outside, making the range very durable. Their Pacific range No. 440 has six 8-inch holes. The top cooking surface is 36x30 inches, with a permanent nickel-plated bar or towel rack in front. This range is furnished with a direct draft damper and side draft register. The oven is 18x20 inches, and the low warming oven is 20x21 inches.

An ecru blotter as an envelope, with a green tissue paper inside, is a rather striking combination, but people fortunate enough to be on the mailing list of the Gobeille Pattern Co., Cleveland, O., are certain to get a number of unique advertisements in the course of a year. This latest attention-attracting circular bears this suggestion to stove founders: "Have you cast-iron sections for your Oak stoves, to take the place of sheet-steel in case the steel is difficult to get or too high priced? An all-cast stove is very stylish and effective. You make it yourself and don't have to pay out a part of your small profit to the steel manufacturers. Some dealers prefer the all-cast stoves. And you'll have to pay the cost of the strike if you continue to use sheet and planished steel in Oak stove construction."

The Joliet Stove Works, Joliet, Ill, make a number of popular stoves, including Moore's air tight heater, which is substantially a small furnace surrounded by an open ornamental casing. The fire pot and dome are solid castings, extra heavy, and made to withstand great heat. The base, fire pot, dome and elbow are carefully and firmly bolted together with pure asbestos wicking, which insures absolutely tight joints. The dust flue is directly connected with the ash pit and elbow. The dust damper rod is located at the upper right-hand corner of ash pit door, and when grate is operated should be drawn out to allow all dust to be carried up the chimney. The fire is regulated by perfectly controlling the air supply. This is made possible by reason of the air tightness of the asbestos packed joints, and the use of a patent ground ash pit door and draft slide.

Wm. Resor & Co., Cincinnati, O., send us a little circular entitled "A Few of Many." This shows a variety of this firm's goods, including the Monitor steel range, Champion Monitor steel range, Monitor gas range, Monitor base burner, Monitor Oak, Monitor Hot Blast and Peerless Oak. The Monitor steel ranges are made in 243 different styles and sizes. The bodies are made of planished or polished steel in four sizes, with oven openings, 14, 16, 18 and 20 inches wide and 20 inches deep. In the Monitor gas range the burners are extended across the entire width of the range, with lateral branches at the ends. The gas flame is subdivided into over 200 small jets, the central ones burning downward and those on the branches burning up the side flues. In the Monitor base burner, for hard coal, the diving flue is in front, extending the entire width of the stove. The Monitor Oak, in its new 1901 dress, has beautiful silver nickel plated fire pot skirting, foot rail, draft registers, top ring and swing top, the latter being mounted by a beautiful brass urn. The Monitor Hot Blast is provided with a central down draft hot blast. It is made with cast top and bottom of original and attractive design.

WHITE'S HEATERS.

The Thomas White Stove Co., Quincy, Ill., make a number of popular heating stoves. White's Hot Blast, for coal, is mounted with planished steel. It has nickeled steel top ring, urn, urn bottom, foot rails and screw draft damper. Its features include heavy cast top, cast base and bottom made in one piece, oscillating air blast, double fire pot with steel lining in upper part of drum, drop ash pit door and cast columns on the outside of the drum.

White Superb, for coal or wood, has single fire, inside ring to protect drum, oscillating hot blast tube, ash pan, nickeled steel top ring, urn, urn bottom, name plate, foot rails and screw draft dampers.

White's Oak, for coal, has inside fire pot, extra ring to protect drum, oscillating hot blast tube, nickeled steel top ring, urn, urn bottom, name plate, middle ring and foot rails.

White's Oak, for wood, has single fire pot, inside ring to protect drum, nickeled urn, urn bottom, steel top ring, name plate, middle ring and foot rails. The front foot rail swings for the removal of ashes.

White's Poplar has oscillating hot blast tube, ash pan, nickeled steel top ring, urn, urn bottom, door panel, middle ring and foot rails.

WANT A GOOD STOVE POLISH.

To The American Artisan.

As it is getting close to the time for blacking up stoves, we would like to ask stove dealers, through your paper, what is the easiest and quickest stove polish, and which gives the best results? We prefer one which will take gasolene to mix with. Manufacturers might send us samples of their product. We want a labor-saving, dustless and bright deep black polish. We will be very glad to hear from users of different polishes.

Fredonia Hdw. Co.

Fredonia, Pa., Aug. 17, 1901.

ROUND OAK YEAR BOOK FOR 1901.

The editor of The American Artisan, having carefully examined the cover of the "Round Oak Year Book for 1901," gotten out by the Estate of P. D. Beckwith, Dowagiac, Mich., hereby affirms that, in his opinion, it is not made of birch bark, but it must be confessed that it is so wondrously good an imitation thereof that we did not arrive at this conclusion until we had scratched its surface with a knife. This modernized birch bark is the background for that noble savage, Doe-wah-Jack, who, with his red and yellow robe, blue plumes, gaudy moccasins and plaited braids, is a corker and no mistake.

Passing from cover to contents we learn that the Round Oak heating stoves for 1901 have the following among other special features, viz., single piece bottom with extra large ash pit, feed and draft doors ground on and all joints air tight, double fire pot for coal, with cone grate at bottom, fire bowl extension in coal stoves, shaking wood grate, with open front, low down fire pot, swing hearth and feed doors ground on and malleable iron legs fitted and bolted solidly to the bottom.

The Beckwith air tight with hot blast, for coal or wood, is made with the usual Round Oak tight fitting doors and draft openings. It is made heavy and of good material. The bottom is made in one piece and the draft opening is fitted with a swing hearth.

The Round Oak planished steel range has doors ground on, draft slide adjusted air tight, covers turned in a lathe and the cover seats ground out true. The grate is the newest and best combination for wood or coal, and can be quickly taken out without disturbing the fire back or front. The water front is made of malleable iron. The reservoir is extra large and can be quickly heated with little fire. The thickness of the asbestos insulation is almost one-half inch. The ornamentation is massive and handsome.

The Round Oak cast range burns any kind of fuel. It holds fire all night. The flues, fire box and oven are in perfect proportion. There is a combination duplex grate for wood or coal, clean-out door in front, combination check draft controlling the fire and saving fuel, square oven full size, ventilated and boiler iron oven bottom. The different parts are interchangeable.

The Round Oak Standard range and the Round Oak Standard cook are new this year. The ornamentation of these additions to the Round Oak line is rich and plain. The fire box is large, roomy and correctly proportioned. The fire back is of sectional pattern—easily removed and replaced. The grates are of the duplex combination pattern, and can be quickly and easily removed without any disturbance of the linings. The fire box is provided with a large door for wood and a broiling door of ample size, which can be used as well as a pouch feed for coal. The hearth is of the popular sliding pattern. The top oven plate is carefully insulated, as is also the main bottom of the stove.

The Round Oak furnaces have the ash pit in one solid single piece casting. The door frame is cast on. The bottom ring, on which both the furnace and casting

rest, is cast in one piece with guides for furnace bottom, bringing the work all in line. The casing is lined with bright tin, leaving an air space between the tin and the galvanized iron.

One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

SHOULD KEEP RANGE PEDDLERS OUT.

TO THE AMERICAN ARTISAN.

I was very glad to read the letter of "Dealer" in your issue of Aug. 17. The average dealer allows steel range peddlers to milk his territory to a finish, while he is debating what to do with them. Then he does a little circularizing, and because the peddlers quit after they have gone over his township with a fine-tooth comb, and taken every order they thought worth a tinker's dam, the dealer struts around and in an association meeting he oracularly tells how he "drove the peddlers from his town."

I, for one dealer, do not relish any tilts against steel range peddlers. I sell a number of steel ranges every year, and realize that as I live in a small town my field is limited. Moreover, I buy my steel ranges in considerable quantities, so that if the peddlers skin my territory I will have a stack of left-over ranges on hand. Of course, I believe in eternal vigilance, but at the same time an ounce of prevention is worth a pound of cure. Why should not the peddler be kept out by being taxed a good heavy sum. Let us agitate this matter.

STEEL RANGE DEALER.

——, Wis., Aug. 19, 1901.

ALL DEALERS SHOULD CO-OPERATE.

TO THE AMERICAN ARTISAN.

In reading your issue of Aug. 17 I was struck by the fact that the law "X" wants is one which applies to all peddlers, as will be seen by its perusal:

"Every person or company who shall sell or attempt to sell goods direct to the consumer or user of same, and who does not live permanently in the county where license is wanted, and who transact their business by what is generally known as peddling, shall secure from the county court of each county a license, not to be issued for a longer period than ninety days, and for which they shall pay the sum of $300, the money to go to the school fund of the county. The county court may also, at their discretion, have said person or firm give bond in the sum of $500 that their business shall be transacted in a manner that is lawful and just to all purchasers of their goods or wares, said bond not to expire until all business opened up by said party or firm shall be closed. Said license shall only cover one man in each case."

The dealer reading this over will see that while it certainly covers the case of steel range peddlers, it also covers a number of wandering hucksters, who take away profits from the grocer, the implement man and other local merchants. It seems to me that this is a matter that hardware men should get their local business men's association to take up, and their state business men's associations. Secretaries of state hardware associations should correspond with secretaries of other state associations of business men, such as grocers, etc., and by a united demand secure the passage of this law.

——, Ill., Aug. 20, 1901. B. L. E.

THE ECLIPSE ADJUSTABLE STOVE TRUCK.

Stellwagen & Kynoch, St. Ignace, Mich., are manufacturers of the "Eclipse" adjustable stove truck, shown in the accompanying cut. This truck is made entirely of steel and malleable iron. It is light and neat and at the same time strong and durable. As this truck is open at the sides and ends there is little or no obstruction to the sweeper. Among the testimonials this firm have received to the merits of this truck is the following: "Having used the Eclipse trucks about a year now, I am pleased to say they have proven very satisfactory indeed; being strong, steady, easy of adjustment, smooth running, and I am more than convinced that a nice trim-looking truck, like the Eclipse, materially assists in the sale of stoves."

"Eclipse" Adjustable Stove Truck. Open.

"Eclipse" Adjustable Stove Truck. Closed.

FLUE PROGRESS.

The Abram Cox Stove Co., Philadelphia, Pa., with Chicago branch at 15-19 West Lake street, Chas. A. Rusco, manager, have been careful students of the flue question, and have a pronounced preference for the three-flue construction, as shown in Fig. 3 herewith. In this construction the bottom flues force the heat to the outside walls of the base. The air flues also have a large radiating surface. This flue construction is the main point of their Golden Novelty base burner. In the Novelty base burners there are two cold air flues at the back of these stoves, and they are so placed in between the hot air flues that they draw the cold air from the floor, and discharge it from the top at an intense heat. The fault they find with the two-flue construction, shown in Fig. 1, and the circular flue, shown in Fig. 2, is that the heat does not come in contact with the outside of the base in required volume. In the two-flue construction the air flues are so small, they state, that but little radiating surface is provided. The circular flue, an adaptation of the two-flue construction, is claimed to be an improvement on it, but it does not allow enough heat to come in contact with the base.

Fig 1.

Fig. 2.

Fig. 3

The Hardware Record.

Arkansas Retail Hardware Dealers' Association.
Pres., John M. Pitman, Prescott.
1st Vice-Pres., J. F. Maxey, Ozark.
2d Vice-Pres., T. B. Stewart, Newport.
Secy-Treas., J. A. Plummer, Marianna.
Executive Com.: H. Williams, Hot Springs, J. H. Boicourt, Little Rock, J. W. Lee, Fordyce.

Chicago Retail Hardware Dealers' Association.
Pres., D. McLaughlin.
Vice-Pres., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

Hardware Merchants' and Manufacturers' Association of Philadelphia.
Pres., Hugh McCaffrey.
Vice-Pres., Wm. C. Peters.
Sec.-Treas., T. James Fernley.
Directors, William W. Supplee, Samuel Disston, John H. Griffith, James H. Ritter, William C. Peters, Thomas Devlin, Fayette R. Plumb, Hugh McCaffrey and T. James Fernley.

Illinois Retail Hardware Dealers' Association.
Pres., H. G. Cormick, Centralia.
Vice-Pres., Wm. Bittel, Peoria.
Sec., G. R. Lott, Chicago.
Treas., F. F. Porter, Chicago.
Ex. Com., Z. T. Miller, Bloomington; W. T. Gormley, Chicago; H. N. Murphy, Galesburg; C. Mauer, East St. Louis; C. Williams, Streator; L. Babst, Kankakee.

Indiana Retail Hardware Dealers' Association.
Pres., W. P. Lewis, New Albany.
Vice-Pres., Jas. L. Hutton, Portland.
Sec. and Treas., M. L. Corey, Argos.
Members Ex. Com., I. A. Sibley, South Bend; E. M. Bush, Evansville: W. H. Weed, Vincennes.

Indian Territory Retail Hardware Association.
Pres., Geo. W. Mowbray, Tulsa.
1st Vice-Pres., J. G. Smith, Canadian
2d Vice-Pres., Fred Parkinson, Wagoner.
Sec., Dick Miller, Poteau.
Treas., Sam R. Frazee, Vinita.

Iowa Retail Hardware Dealers' Association.
Pres., W. A. McIntire, Ottumwa.
Vice-Pres., E. G. Penrose, Tama.
Ex. Com., A. C. Heyman, Miles; L. Lindenberg, Dubuque; F. S. Narum, Waukon; E. G. Penrose, Tama; W. A. McIntire, Ottumwa; L. H. Kurtz, Des Moines; H. A. Cole, Council Bluffs; Harry Vincent, Ft. Dodge; W. H. Miller, Cherokee; M. W. Keating, Afton; Jacob Seither, Keokuk.

Kansas Hardware Dealers' Ass'n.
Pres., Geo. F. Andersen, St. Marys.
Vice-Pres., Oscar Rohhr, Topeka.
Sec., J. A. Cole, Topeka.
Ex. Com., James H. Hamilton, Arkansas City: E. I. King, Logan; T. H. Kiniry, Beloit; J. M. Walters; Robinson; F. W. Bartlett, Kansas City.

Kentucky Retail Hardware and Stove Dealers' Association.
Pres., Geo. Dehler, Louisville.
1st V.-P., J. S. Ogden, Ashland.
2nd V.-P., Chas. D. Winn, Paris.
Sec., Paul Wagner, Louisville.
Asst. Sec., Wm. Dehler, Louisville.
Treas., Henry Heick, Louisville.

Michigan Hardware Association.
Pres. H. C. Minnie Eaton Rapids.
Vice-Pres., Geo. W. Bruske, Saginaw.
Sec., Fred H. Cozzens, Detroit.
Treas., Henry C. Weber, Detroit.
Ex. Com., Samuel Winchester, Jackson; Fred S. Cook, Fowlerville; C. E. Pipp, Ostego; A. Harshaw, Delray; A. J. Scott, Marion City; James J. Potter, Alpena; Jno. W. Jochin, Ishpeming; Robt. G. Chandler, Coldwater; John Popp, Saginaw, F. S. Carlton, Calumet.

Minnesota Retail Hardware Association.
Pres., W. H. Tomlinson, LeSueur.
Vice-Pres., H. S. Cleveland, Minneapolis.
Sec., T. McCracken, Minneapolis.
Treas., G. M. Evanson, St. Peter.
Ex. Com., F. H Hunt, Red Lake Falls; B. J. Kernkamp, St. Paul; Julius Schmidt, Wabasha; W. H. Tomlinson, LeSueur; A. C. Hatch, Battle Lake; Jos. Mason, St. Peter; Chas. F. Ladner, St. Cloud; S. R. Nelson, Owatonna; E. H. Loyhed, Faribault.

Missouri Retail Stove and Hardware Dealers' Association.
Pres., B. F. Naylor, Marshall.
V.-P., Geo. R. Plowman, St. Louis.
Sec., F. N. Neudorff, St. Joseph.
Ex. Com., R. L. Hixon, Hannibal; F. A. Kannsteiner, St. Louis; J. W. Poland, Carrollton; W. A. Wingert, Kansas City.
Advisory Board, P. E. Harney Joplin: E. Stuelzing, Kansas City; J. M. Kenyon, Maitland; W. T. Shoop, Richmond; G. A. Pauly, St. Louis.

National Hardware Association.
Pres., R. W. Shapleigh, St. Louis.
Second Vice-Pres., Brace Hayden San Francisco.
Sec-Treas., T. James Fernley, Philadelphia.
Ex. Com., W. K. Belknap, Louisville: John C. Koch, Milwaukee; R. A. Kirk, St. Paul; Samuel A. Bigelow Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham.

National Retail Hardware Dealers' Association.
Pres., W. P. Lewis, New Albany, Ind.
Vice-Pres., Geo. Hubbard, Flint, Mich.
Sec., M. L. Corey, Argus, Ind.
Treas., H. T. Helgeson, Milton N. D.
Ex. Com. Z. T. Miller, Bloomington, Ill.; Fred Neudorff, St. Joseph. Mo; I. A. Sibley, South Bend Ind.; H. A. Cole, Council Bluffs, Ia.; H. G. Cormick, Centralia, Ill.

North Dakota Retail Hardware Dealers' Association.
Pres., H. T. Helgesen, Milton.
Vice-Pres., H. N. Joy, Hamilton.
Treas., W. H. Pinkerton, Lakota.
Sec., C. N. Barnes, Grand Forks.
Ex. Com., H. Harrington, Fargo; W. W. Jamieson, Wahpeton; H. F. Strehlow, Casselton; I. L. Newgard, Grafton; H. B. Allen, Jamestown; H. A. Mae, Church's Ferry.

Ohio Hardware Association.
Pres., O. M. Scott, Marysville.
Vice-Pres., W. P. Bogardus, Mt. Vernon.
Cor. Sec., Geo. Gray, Coshocton.
Financial Sec., Will C. Jones, Columbus.
Treas. H. G. Woodward, Sidney.
Ex. Com., Geo. B. Meyer, Cincinnati; Geo. V. Guyton, Ada; H. F. Rahe, Cleveland; J. Rohrbacher Akron; A. H. Strome, Warsaw; Frank Winters, Lancaster; James B. Carson, Hamilton; R. Brown, Washton Court House.

Philadelphia Retail Hardware Dealers' Association.
Pres., Frank Schmidt.
Vice-Pres., Julius M. Aff.
Sec., T B. Hendricksen.
Treas. Edward H. Shannon.
Trustees, Wm. E. Andrews, Lewis C. Claditg and Aaron I. Sanson.

St Louis Stove Dealers' Ass'n.
Pres., F. A. Kansteiner.
First Vice-Pres., Aug. Steinmeyer.
Second Vice Pres., Aug. Gruendler.
Sec., A. F. Geschwindner.
Treas., L. J. Boehl.

Southern Hardware Jobbers' Association.
Pres., J. D. Moore, Birmingham, Ala.
1st Vice-Pres., F. A. Heitman, Houston, Tex.
2d Vice-Pres., Bruce Keener, Knoxville, Tenn.
Sec., C. B. Carter, Knoxville, Tenn.
Ex. Com., W. M. Crumley, Atlanta, Ga.; O. B. Barker, Lynchburg, Va.; Chas. H. Ireland, Greensboro, N. C.; B. F. Eshleman, New Orleans.

Texas Hardware Jobbers' Association.
Pres., F. A. Heitman, Houston.
1st Vice-Pres., J. C. Bering, Houston.
2d Vice-Pres., Ed. Strauss, Waco
Sec.-Treas., Robert Eikel, Houston.
Ex. Com., Jas. Moroney, Dallas; R. F. Bell, Weatherford; W. L. Sanford, Sherman; A. E. Goeth, Austin.

Wisconsin Retail Hardware Dealers' Association.
Pres., John Hessel, Antigo.
Vice-Pres., Otto Schlafer, Appleton
Sec., C. A. Peck, Berlin.
Treas., George Leverenz, New Holstein.
Ex. Com., Henry Droegkamp, Milwaukee; Arthur Heins, Tigerton; E. H. Ramm, New London; J. Wilkie, Fond du Lac.

A. A. Marr, with Chas. Morrill, 35 Warren street, New York, manufacturer of saw sets, died on Aug. 13. Mr. Marr was for many years an undertaker in Washington, and conducted the funeral services for John Wilkes Booth.

Geo. W. Hoffman, 295 E. Washington street, Indianapolis, Ind., manufactures the U. S. metal polish, for polishing gold, silver, plated ware, nickel, tin, brass, copper, etc. This polish has gained a recognized success for the excellent results it gives.

A superior line of faucets for beer barrels, milk cans, oil cans and cream separators, in a great variety of sizes and styles, are made by the Clark Novelty Co., Rochester, N. Y. These faucets are made with unusual care and are deservedly popular with the trade.

The Ironton Tack Co., Ironton, O., are rapidly pushing their new plant to completion. This firm have 22 nail and tack machines on the floor, as well as 12 double point tack machines. They have a 20-horse power gas engine in place.

Randleman & Sons, Des Moines, Ia., are manufacturers of the Gee Whizz washer. This washer is made without hoops or staves, and will neither shrink, leak nor fall down. The reflex motion of this washer whirls, rubs, slaps, squeezes and sucks the dirt out of the clothing.

The Welling Mfg. Co., Columbus, O., are manufacturers of the Peerless flue stopper, the demand for which increases year by year. It has steel wire springs instead of sheet iron stays. It stays where it is put and is absolutely soot and smoke proof. It is made either plain or decorated.

The Robert Aitchison Perforated Metal Co., Chicago, make a line of perforated metals in iron, steel, brass, aluminum, tin, lead and other sheet metals. This firm have been in business over thirty years, and have accumulated an assortment of sizes covering almost all requirements of the trade. Their complement of sizes covers over 600 varieties.

H. Hevenor, Salamanca, N. Y., sends us a circular calling attention to the Cascade washer. The washboards are suspended from the cover. They are hung on pivots and swing easily toward either end of the tub. The perpendicular washboards on the bottom are also on pivots and lean either way the water flows.

The Ironton Wood Mantel Co., Ironton, O., send us a pretty catalogue showing some of their designs in wood mantels. A very pretty design is that composed of their base No. 54 and top No. 112. The shelf is 9x5 and profile is 3 inches and height is 47 inches. There is an opening for 16 or 17 tile. The mirror in the top is 16x24 inches and the height of the top is 33 inches.

The Columbus Bolt Works, Columbus, O., are manufacturers of a complete line of bolts, nuts, washers, twin buckles, bridge and roof rods, and all kinds of carriage forgings. They would be pleased to send the trade one of their catalogues on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Belding Hall Mfg. Co., Belding, Mich., manufacturers of refrigerators, mosaic stove boards, folding

tables, etc., have closed their factory "B," as they are unable to procure steel with which to manufacture stove board. They use a special finish of steel for this purpose, which, on account of the strike, they are unable to secure.

The Benbow-Brammer Mfg. Co., 1007 N. 13th street, St. Louis, Mo., are makers of the original Brammer rotary washer, a substantial tub made from a select quality of cypress lumber. It is also made in the detachable leg style, as well as square. This firm would be pleased to send their catalogue to the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The S. M. Howes Co., 40-46 Union street, Boston, Mass., are manufacturers of the Yankee hot air damper. It has wood enameled handle, wood handle which cannot come off, and washer and spring which can not fall off the rod. The same size of holes are punched on each side of the pipe. The rod is made of half-inch cold rolled steel, and slips into the damper very smoothly.

The Schreiber & Conchar Mfg. Co., Dubuque, Ia., make a very complete line of hardware specialities, among which is the Mack anti-friction barn door hanger. This, it is claimed, is the only hanger made with an off-set in the hanger frame, which takes the weight of the door off the rivets that fasten the rider bars to frame and puts the weight of the door on the frame itself. The spools under the track prevent the frame from bending should a pressure be made on the door.

All files look alike to the casual observer, but if a dozen different makes of files are put to the same use it will not be long before it is an easy matter to grade the entire dozen in regard to durability, ease and accuracy of work. A file is made for the hardest kind of usage, and if it is poorly tempered it soon gives out. Expert mechanics everywhere are ever ready to speak a good word for the Black Diamond files, manufactured by the G. & H. Barnett Co., Philadelphia. These files also boast an even dozen medals awarded at different International Expositions.

The Old Dominion Iron & Nail Works, Richmond, Va., manufacture a line of cut nails, both iron and steel. Their refined bar iron of high quality includes rounds up to 3½ inches, square up to 3½ inches, flats up to 6 inches wide, ovals, half ovals, half rounds, round edge, steel tires and boiler brace iron of high tensile and elongation. Their horse shoes include light iron, medium iron, heavy iron, long heel light iron, long heel medium iron, extra light steel and XL featherweight steel. Their mule shoes are made in these styles: country light iron, country light steel, city pattern and medium iron. They also make special machine bolts, blank bolts, bolt ends, square and hexagon nuts, drift bolts, round and square, harrow teeth and lag screws.

The Wilcox Mfg. Co., Aurora, Ill., send us some directions for putting up track and hanging double doors with the Wilcox velvet roller-bearing house door hanger with overhead center stop. The studding is set in a line with a clear space of 4 inches between the two lines of studding and for backing for track, a board ⅞-inch thick and 5½ inches wide is used. The board is let into the studding ½ inch. The lower edge of board is to be flush with upper side of jamb. The pocket in the overhead jamb is cut on the opposite side from which the track is fastened to the board and at the center of opening. The track is screwed to the board so that the center of track will be in the center of the opening. The distance from the upper edge of the track to the bottom of the jamb should be 3⅜ inches. The jambs should have a space of ¾ inch between them, and it is necessary that the center of this opening, between the jamb, be directly below the center of the track, so that a plumb line from center of track will extend through the center of opening between the jamb. A header should be firmly nailed between the two lines of studs 4 inches above the top of the track to keep the space uniform and to prevent spreading or contracting. The door is cut ⅜ inch less than the height of opening, groove is ploughed in bottom ⅜ inch wide by ½ inch deep for guide, which should be screwed to floor flush with partition. The plate on top of the door is screwed on, the center of the plate coming to the center of the door, and the front of the plate being flush with the edge of door. The wheel is placed on the track. This firm will be pleased to send their circulars to the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

SHOVEL MEN JOIN HANDS.

A press dispatch from New York states that the merger of shovel manufacturers is complete. This latest consolidation will be known as The Ames Tool & Shovel Co., capitalized at $5,000,000. The subsidiary companies of the combine are the Ames Shovel Works, of North East, Mass.; Rowland Shovel Works, of Philadelphia, Pa.; Wright & Alford Shovel Works, of Terre Haute, Ind.; St. Louis Shovel Works, St. Louis, Mo., and the H. M. Meyers Shovel Works, Beaver Falls, Pa.

THE BROHARD SASH LOCK AND ANTI-RATTLER.

The Brohard Co., Philadelphia, Pa., are manufacturers of the Brohard sash lock and anti-rattler, shown in the accompanying cuts. These locks are stamped out of the very best steel. They do not destroy the facing strip, but work against the solid wood frame. They are made in full styles, viz., blue steel, lacquered finished, tinned, with nickel plated cam or thumb piece, nickel plated with polished cam or thumb piece and solid brass with polished metal cam. With this lock the window can be raised to any height and fastened there.

Brohard Sash Lock and Anti-Rattler.

Brohard Sash Lock and Anti-Rattler.

A STRIKING PAN-AMERICAN SOUVENIR.

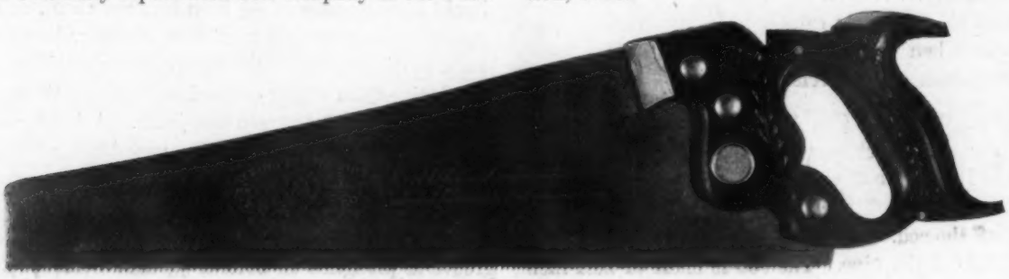
The Pan-American Exposition at Buffalo is in full blast, and is thronged by thousands of visitors, wandering from exhibit to exhibit. One of the most attractive exhibits at this great international exposition is that of E. C. Atkins & Co., Inc., the saw and tool manufacturers of Indianapolis, Ind., and widely known to the hardware and lumber trades in all sections of the country. Their magnificent exhibit is in charge of E. S. Taylor, who so efficiently represented this company at the Paris Exposition in 1900. This exhibit of theirs is directly opposite the main entrance of the Machinery and Transportation Building. The space occupied is thirty-three feet long by thirteen feet wide, and the wall back of it is fifty-four feet long and fifty feet high, thus giving a splendid chance for the display of saws of all kinds. The wall is cased in oak and covered with red velvet, upon which are mounted hand and small circular saws of all kinds, arranged in artistic designs.

A revolving cylinder fifteen feet high and nine feet in diameter occupies the middle of the floor space. On it are mounted many large solid and inserted tooth circular saws ranging from 88 inches in diameter down, the whole apparatus being turned slowly by an electric motor in the cellar. The space at one end of the exhibit is occupied by a large square pyramid, on which are mounted a complete line of hand, kitchen and butcher saws, corn cane and beet knives and hominy knives, etc. Also another square pyramid shows a large number of planing machine knives of all descriptions.

The other end of the space contains a show case in which are kept a full line of saw tools, and a rack holding twelve cross cut saws, varying in length from four to nine feet. The balance of the space is used as an office, where will be found all the trade journals, writing materials, etc., for the use of the friends and patrons of the company.

One of the features of the exhibit is the railing made of a fourteen inch double edge band saw mounted on oak posts. An arrangement of electric lights and heavy carpet completes the installation, making an exceedingly rich and attractive display.

Mr. Taylor gives away a most beautiful and attractive souvenir in the shape of the beautiful saw, whose two sides are shown herewith. On one side it reads, "Atkins' Perfection silver steel warranted and damaskeened. Our A No. 1 blade with Perfection handle adapted for rapidity and ease in cutting," while on the obverse side it reads, "Souvenir Pan-American Exposition, 1901."



Front View.

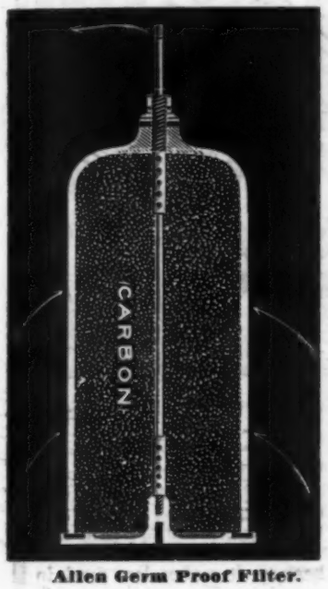
Obverse View.

BRAMMER'S O. K. AND O. I. C. WASHERS.

The H. F. Brammer Manufacturing Co., Davenport, Iowa, has been compelled, by the increase in the demand for their washing machines, to abandon the manufacture of fixtures and furniture and devote that building to making washing machines. They are also contemplating the erection of an additional building for this purpose. They send us a very pretty folder they have just received from their lithographer, showing their machines in natural colors. This circular shows the advance in the science of clothes washing, from the primitive days, when women went to streams of running water with their clothes. The O K rotary washer has a revolving steel ball gearing that reduces the friction and makes the machine light running. The tub is made of Louisiana red cypress lumber, and is corrugated, similarly to a washboard. The legs are solid with the tub. The wheel turns right or left. The pin-wheel, or dasher, reverses automatically, turning the clothes back and forth through the hot soap suds. The tub has a wringer box fastened with steel brackets. It has gilded hoop, castings and name. The O. I. C. washer has a pendulum attachment and can be operated with equal ease while sitting or standing. The trade should send for one of these circulars, which show exactly how these washers look. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

ALLEN GERM PROOF FILTER.

The accompanying cut shows the Allen germ proof filter, manufactured by the Allen Germ Proof Filter Co., Toledo, O. The tubes in these filters are very fine grained and are burned to a high degree of heat. These tubes are filled with especially prepared carbon, which removes all coloring matter in solution and deodorizes the water, thus combining mechanical and chemical filtration. The water first passes through porcelain, then through carbon, and, as no suspended matter enters the carbon, it remains perfectly pure and clean. This makes the Allen a double filter. Each filter is provided with an automatic valve, which prevents overflow.



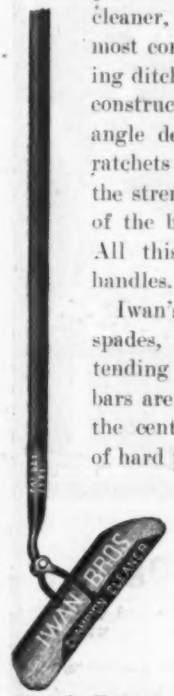
Allen Germ Proof Filter.

IWAN'S PATENT CHAMPION CONCAVE ADJUSTABLE DRAIN CLEANER.

Iwan Bros., Streator, Ill., are manufacturers of Iwan's patent Champion concave adjustable drain cleaner, shown herewith. This cleaner is the most convenient and substantial tool for flushing ditches there is on the market. It is neatly constructed and can easily be adjusted to any angle desired. The shanks and sockets have ratchets on both sides, which greatly adds to the strength of the tool. The blades are made of the best cast steel and are highly polished. All this firm's drain cleaners have six-foot handles. A wrench goes with each cleaner.

Iwan's patent Perfection ditching and drain spades, with solid cast steel socket, have extending foot steps. The back parts of the bars are diamond-shaped. It is also braced in the center, thus stiffening the prongs in case of hard prying. This spade is specially adapted for murky and sticky soil.

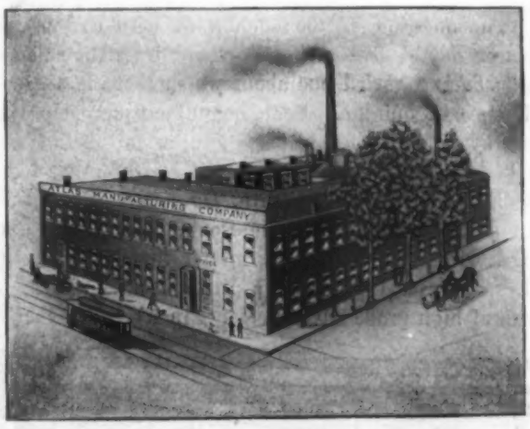
Another popular specialty made by this firm is found in Iwan's Volcano revolving and ventilating chimney top. The iron mountings are composed of only two parts, and no pins or wires are required to hold down the cap. It has a deflector corresponding with hood by which is formed the sloped opening in the back of the hood, which creates a strong upward draft and allows free passage of smoke.



Iwan's Patent Champion Concave A justable Drain Cleaner.

BRACKET FACTORY.

The Atlas Mfg. Co., New Haven, Conn., manufacturers of the Bradley steel shelf brackets, has just moved into their new building, which contains 20,000 square feet of floor space, devoted exclusively to the manufacture of shelf brackets. It is equipped with the latest machinery and appliances. This bracket is in very active demand, as is shown by the fact that over 1,000 miles of wire per year are used in its manufacture. During the past year improvements have been made in this bracket which greatly enhanced its popularity. In a recent favor this firm advises us that they are building machinery which will make their production almost entirely automatic, largely increasing the output and materially reducing the cost.



Bracket Factory.

PAT. APR. 5, 1892.
NOV. 8, 1892.
APR. 4, 1893.

Bradley Bracket.

BUSINESS CHANGES.

NEW FIRMS.

Fort Worth, Tex.—The Mickle Burgher Hardware Co.

CHANGES.

Hickory, N. C.—A. A. Shuford, Jr., succeeds the Shuford Hardware Co.

Hartsells, Ala.—J. H. Crosbie succeeds Crosbie & Riddle.

Elkton, Ky.—S. H. Wells succeeds A. H. Miller.

Cloverport, Ky.—H. A. Oelze & Son succeed Payne & Co.

Anderson, W. Va.—H. C. Bare & Co. succeed Bare & Alford.

Statesville, N. C.—The Flanigan Evans Hardware Co. are succeeded by Flanigan's Sons Co.

Ozone, Tex.—E. W. Bennett succeeds Bennett & Gillespie.

Rio Vista, Tex.—The Rio Vista Hardware Co. succeeds Scott Sons & Enocks.

Earlington, Ky.—Jerry Weaver succeeds J. M. Twyman.

Columbus, Miss.—The Wm. M. Winston & Banks Hardware Co. succeed the Winston Banks Hardware Co.

Commerce, Tex.—Barker & Taylor succeed H. C. & V. J. Barker.

Bessemer, Ala.—The J. A. Lewis Hardware Co. succeed J. R. Day.

STOPPAGES.

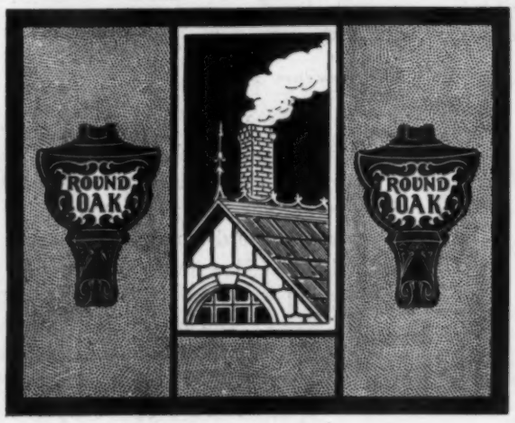
Richmond, Va.—The Acme Hardware Co.

Canton, Miss.—Walter Colquhon

Advertising Department.

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

The question of the amount of help the manufacturer should give the dealer in pushing the sale of his goods is a varied one about which there is a great difference of opinion. Some manufacturers help the trade by sending them a large size cut of their trade mark. In cases like this the shoe is on the other foot. The Estate of P. D. Beckwith, Dowagiac, Mich., furnish dealers who handle the Round Oak stoves and ranges with some advertising matter that is very helpful. They have prepared a little booklet, giving a series of high grade advertisements in which the merits



Only white smoke goes up the chimney if you heat your house with a

Round Oak Stove

(Made by Beckwith, Dowagiac).

Every bit of the heat goes into the house.

Smoke, ashes and dust, the things you do not want and cannot use are all that ought to go up the chimney.

No matter how much fuel you burn, or how much you spend for it, if your stove is not constructed rightly, instead of warming the house you are simply heating the atmosphere somewhere between the top of your chimney and the stars.

The Round Oak Stove utilizes every bit of heat there is to be had.

of the Round Oak stoves and ranges are invitingly set forth. A dealer in a small city who uses a series of their black and white advertisements, shown herewith, is sure to create a sensation, as his announcements will, in 19 cases out of 20, discount all other advertisements. The dealer who would take a 7 inch double column space for September and October in the daily in his town, and run 50 of these advertisements, would have his announcement looked for each day, and should sell quite a number of stoves.

Of the three advertisements shown herewith the "Mistress and Maid" anouncement will appeal more especially to larger rather than smaller communities. The "White Smoke" and "Meals on Time" advertisements can be used by dealers in any circumstances.

Each of the advertisements in this booklet emphasizes some special feature of Round Oak excellence, and while the series has the same general earmarks so

Mistress and maid alike endorse and enjoy the

Round Oak Stove

(Made by Beckwith, Dowagiac).

The mistress likes it because it is a comfortable and saving heater. It gives heat right along without any bother or worry, it hasn't that enormous appetite and it is attractive to look at.

The maid likes it because it makes less work in dirt and ashes to clean up, all because it has a single piece bottom without inside ash pan, and the feed and draft doors are ground on with all the joints air tight.

This means much to the stove, and it means much to you in the way of saving in your fuel bills.

If these things are important to you, let us show you a Round Oak Stove.

the reader will recognize it at a glance, each separate

Having meals on time is but one of the many satisfactory features of using the

Round Oak Range

(Made by Beckwith, Dowagiac).

In addition to this, meals have been prepared with less fuel, with less wear and tear on the temper, and with the feeling that you know just what you can do.

The Round Oak Range is a logical and sensible range.

It is a reasonable range for reasonable people. Have you one in your house? Have you ever had it fully explained to you?

If not, drop in at our store and let us talk to you about a model range.

We carry everything in the way of cooking and heating stoves and ranges, as well as a full line of household hardware.

advertisement has a distinct originality of its own.

Heating and Ventilating.

B. B. Christie, Dayton, O., is manufacturer of the Gas King, a natural gas hot air furnace, which is also adapted for oil as fuel.

The Hart & Crouse Co., Utica, N. Y., makers of the Royal heaters, send us a pretty combined lead pencil and rule made of metal that is a most valuable adjunct to our editorial desk.

The Pancoast International Ventilator Co., Philadelphia, Pa., send us their latest catalogue showing their improved Pancoast ventilator. This booklet shows a large number of these ventilators in use on prominent buildings.

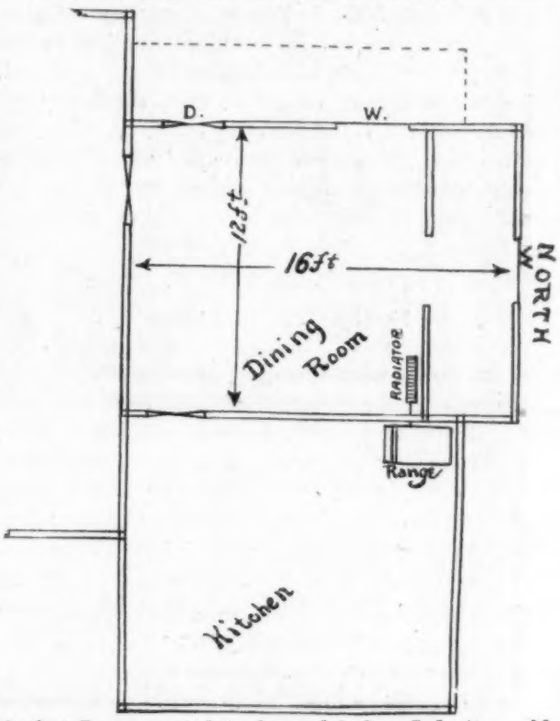
E. E. Dunning, who for a number of years past has has been manager of the furnace department of R. J. Schwab & Sons Co., Milwaukee, Wis., has been promoted to the secretaryship of the company. During Mr. Dunning's efficient management of the furnace department of this concern there was a heavy increase in the sales of the Gilt Edge warm air and combination heaters.

W. H. Colebrook Sons & Co., Syracuse, N. Y., for whom The Chas. Smith Co., 122 Lake street, Chicago, are western selling agents, send us a pretty blotter that calls attention to their asbestos furnace cement, and states that it is just as important to the furnace manufacturer to use good asbestos furnace cement and stove putty in the manufacture of his furnaces as it is to use good iron.

HEATING THE DINING ROOM FROM KITCHEN RANGE.

To The American Artisan.

Enclosed you will find a rough drawing of a small

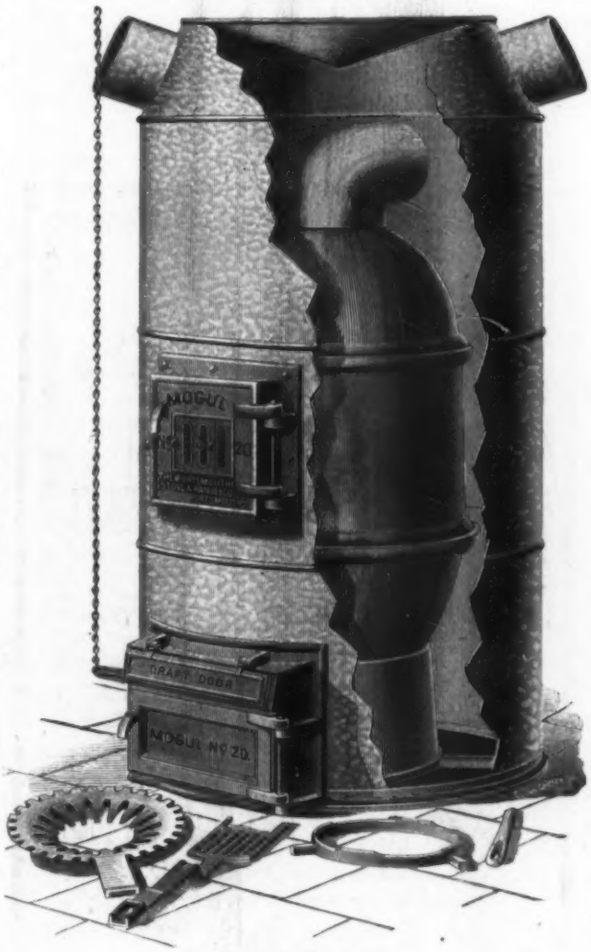


job that I am wanted to do, and before I do it would like to have your opinion whether or not it would be satisfactory. Can the dining room be heated from an ordinary range, and if so, what size radiator should be used. The ceiling of the room to be heated is nine feet high. G. E. B.

Harrison, Ida., Aug. 13, 1901.

THE MOGUL FURNACE.

The Portsmouth Stove & Range Co., Portsmouth, O., are manufacturers of the Mogul furnace, shown in the accompanying cut. This furnace is made with reg-



Mogul Furnace.

ular furnace joints for cement from the bottom up. It is also provided with a draw-center, anti-clinker grate, all of which can be taken out and replaced through the ash pit. The fire pot has fingers at the bottom on the inside to assist in grinding up the cinder and cleaning the fire.

The Phipps Furnace Co., Milwaukee, Wis., send us a little circular describing their Wisconsin furnace. This furnace has high ash pit and ash pit door, the Phipps patent sexagonal bar revolving grate, heavy sectional corrugated firepot, radiator with body constructed of No. 12 and No. 14 steel dome head and ring and lower ring of cast iron, and front neat in design and appearance.

The Jackson Iron & Tin Plate Co., Clarksburg, W. Va., have effected an organization, with Colonel T. M. Jackson as president, W. I. Grove, secretary and treasurer, and C. C. Moore, general manager.

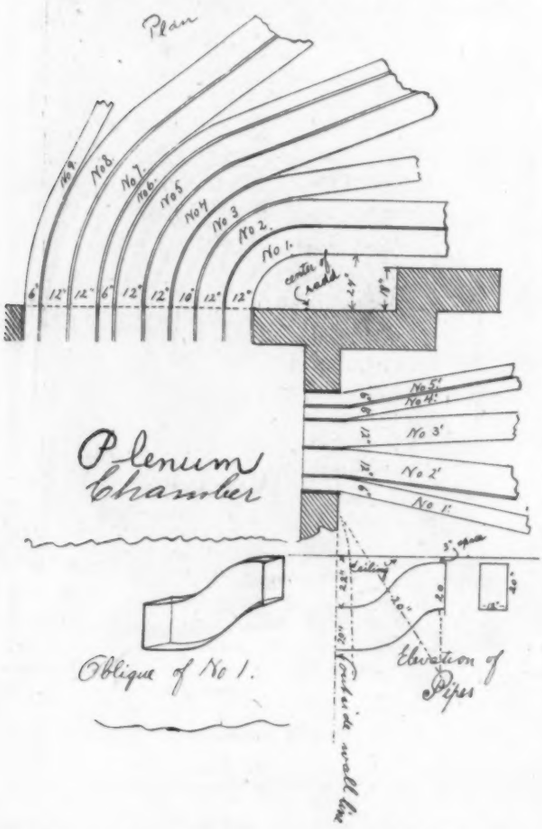
Tinshop.

RECTANGULAR AND SQUARE PIPE WORK.

TO THE AMERICAN ARTISAN.

Kindly let me know through the Tinshop column of THE AMERICAN ARTISAN the way to lay out the patterns of the system of heating and ventilating pipes shown in sketch. No doubt it will be of great aid to many others, as one so seldom sees anything in regard to rectangular square pipe work illustrated in the trade papers.

The plan shows one corner of plenum chamber, with the pipes in position and their size. The elevation shows the shape of pipe, namely, an offset. This offset curves upward as soon as it leaves the wall line of the plenum chamber. In the oblique I tried to illustrate both the offset and curve that each pipe has. Nos. 1



and 2 are right angle. Nos. 3 to 9 are all different, it might be said. The dots show where the straight pipe intersects or joins the curved elbows. Practically all the elbows hug each other, that is, come close together; the plan shows 1" clearance, but in putting up they come up close. Nos. 1', 2', 3', 4' and 5' spread out fan-shape, as shown. When all are made and put up they ought to look as if cut out of a large moulding, viz., nice and smooth; not having one too scant or too full; curve should look equal (the convex and concave should correspond).

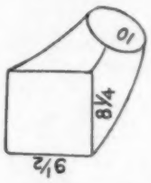
Also desire rule to make pattern for side of straight elbow, like in elevation, that will come right to any measurement. "W. Q."

Baton Rouge, La., Aug. 12, 1901.

DESIRES A RECTANGLUR HOT AIR STACK PATTERN.

TO THE AMERICAN ARTISAN.

Will some one kindly help me on the accompanying sketch. I am to make a pipe or hot air stack, rectangular, terminating in an elbow, from rectangular to



round. The stack is 8¼x9½ to 10 inches in diameter. The pipe from furnace has a raise of 1½ inches to each 12 inches. The bend in the elbow must be from the miter line. "O. H."

Harmony, Minn., Aug. 14, 1901.

THEY PRESS ARBITRATION.

Joseph Bishop, secretary of the Ohio Board of Arbitration, Frank Caldwell, of Wheeling, and John Bindley, president of the Pittsburg Chamber of Commerce, have been making strong efforts to bring around an arbitration of the steel strike. While President Shaffer, of the Amalgamated Association, expresses himself as willing to arbitrate, the steel manufacturers say that they have nothing to arbitrate.

FURNACE BURNS TOO MUCH FUEL.

TO THE AMERICAN ARTISAN.

We have a soft coal furnace and we think it takes too much fuel. We will burn fourteen or fifteen tons of soft coal a year, and three cords of wood. Well, we don't like it. We feel that that is too much, and we presume it is our fault, feeding and regulating the same. Would like to have opinion and directions how to run same to get best results as to heat and economy of fuel. We burn run-of-mine coal. We open check in pipe, fire goes down too cool; if open draft, fire burns up coal too fast. Would you have a big bed of coals, or keep it shaked down, or have a firepot full of coal and ashes? D. B. ROBINS.

Fredonia, Pa., August 13, 1901.

NOTES AND QUERIES.

From St. Paul Roofing Cornice & Ornament Co., St. Paul Minn.

Would like addresses of Chicago jobbers of glass?

Ans.—Chambers Glass Co., 1442 Monadnock Bldg.; H. M. Hooker, 59 W. Randolph street; Mississippi Glass Co., 1443 Monadnock Bldg.; Pittsburg Plate Glass Co., 442-452 Wabash avenue; James H. Rice Co., 34-40 S. Water street; Sprague-Smith Co., 207-209 Randolph street; Tyler & Hippach, 88 Randolph street.

EAGLE HAY FORK.

From Schlafer Hardware Co., Appleton, Wis.

In response to query of E. Moldener, Hubbleton, Wis., regarding the Eagle hay fork, would state that it

is manufactured by the Appleton Hay Tool Co., Appleton, Wis.

ADJUSTABLE THIMBLES.

From Lyman Wood Mfg. Co., Racine Junction, Wis.

Would like addresses of manufacturers of adjustable thimbles?

Ans.—Stuber & Kuck, Peoria, Ill.

NICKLE PLATED RINGS FOR AIR TIGHT STOVES.

From Quincy Pattern Co., Quincy, Ill.

What firms make the nickel plated steel rings used on air tight stoves?

Ans.—Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.; Ireland & Matthews Mfg. Co., Detroit, Mich.; Henry Gleason, New York City.

HARDWARE CABINET.

From "Reader," Philadelphia, Pa.

In response to Kay Bros., Ewing, Neb., would state that the Leonard Mfg. Co., Grand Rapids, Mich., make a catalogue cabinet for hardware dealers.

WEATHER STRIPS.

From the Barnes & Nuss Co, Grand Forks, N. D.

Would like names of manufacturers making weather strips.

Ans.—D. W. Bosley & Co., Chicago; E. I. Church & Co., W. Hanover, Mass.; Dehner Bros., Cincinnati, O.; Hibbard, Spencer, Bartlett & Co., Chicago; Hy. Keidel & Co., Baltimore, Md.; Peter Motley, 750 S. Broad St., Philadelphia, Pa.; Patent Metallic Weather Strip Co., 74 W. 23d street, New York, N. Y.; Pfleger Mfg. Co., 330 N. Wood street, Chicago; S. Roebuck, 172 Fulton street, New York.

FLORENCE STOVES.

From Ed Scott, Newberry, Ind.

Who makes a heater called the Florence?

Ans.—Bergstrom Bros. & Co., Neenah, Wis.

ITEMS.

The La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis., are carrying a large stock of roofing, eaves trough, tin plate, siding, ceilings, conductor pipe and trimmings, solder and sheet iron, and they are in a position to guarantee prompt shipments of these goods.

The Waukesha Sheet Steel Co., Waukesha, Mich., are rapidly pushing their new plant to completion. They have already let the contract for a 1,500-horse-power boiler, two engines, 100-kilowatt dynamos, feed-water heaters, ten motors, eight shears and four pumps.

Clark, Quien & Morse, Peoria, Ill., are having quite a run on their Plecker's corrugated expanding conductors, which are made of galvanized iron in ten-foot lengths without a cross seam. One feature which commends it strongly to the trade is that it will not burst when full of ice.

Arthur A. Peterson & Co., Maple Park, Ill., are manufacturers of a superior line of railroad milk cans, made of heavy cold rolled steel. The covers and necks of these cans are made seamless. A heavy steel washer is soldered to both cover and neck, thus preventing the holes from tearing out. The handles are heavy and are of malleable iron—made solid. They are riveted to the breast with two heavy rivets on each side of the handle.

The Globe Ventilator Co., Troy, N. Y., are enjoying large sales of their popular Globe ventilator, made in brass, copper and galvanized iron, and with glass tops for skylight purposes. In all sections of the country it has proven itself an admirable ventilator for schools, churches, halls, mills, factories and audience rooms of every character. Besides this ventilator this firm make the Globe ventilated ridging.

The Lalance & Grosjean Mfg. Co., 19-21 Cliff street, New York, and 81-83 Michigan avenue, Chicago, are makers of enameled ware cooking utensils. The base of enameled ware is steel stamped out of sheets which have passed under massive rollers; it is, therefore, light, strong and durable. First-class enameled ware is very clean. It is double coated with a hard vitreous covering, which makes it smooth and bright. Labratory analysis has shown the Agate nickel steel ware to be free from arsenic, lead and antimony.

The Wm. Connors Paint Mfg. Co., for whom J. L. Perkins & Co., 241 Lake street, Chicago, and the Stockhoff Supply Co., St. Louis, are western agents, are manufacturers of the American Seal builders' and roofers' elastic oil cement, which adheres firmly to slate or metal and will not crack or crumble. It is especially recommended for repairing leaks around chimneys, dormer windows, skylights, scuttles, fire walls and any place that requires fixing on a roof, either slate, tin or shingle. This cement can be used to repair a roof where solder cannot be used.

The Fred J. Swaine Co., St. Louis, Mo., make a variety of special machinery for working sheet metal and wire goods. A very popular press of theirs is the No. 5 Acme, in which a regular lever press is combined with an adjustable bed, so that dies of any height can be used. It is also a complete horning press for closing side seams on round, square or oval work without the removal of any parts. It is a wiring press complete, without the change or addition of any part—the upper bolster plate being pivoted to swing and having an adjustable stop. The trade should write this firm when desiring foot presses, screw presses, power presses, power punching presses, double seaming machines, can body forming machines, crimping, beading and flangin machines, forming rolls, etc.

TO MAGGIE.

I know a maid, a charming maid;
All golden are her tresses.
Her eyes with heaven are inlaid;
Her lips formed for caresses.

I visit her at morn each day,
And yet, 'tis well worth mention,
She puts no parent in my way
To ask me "my intention."

She hovers 'bout my chair, so near
It sets me all a-quiver;
And softly murmurs in my ear:
"Bee'steak, por'steak, 'n' liver."

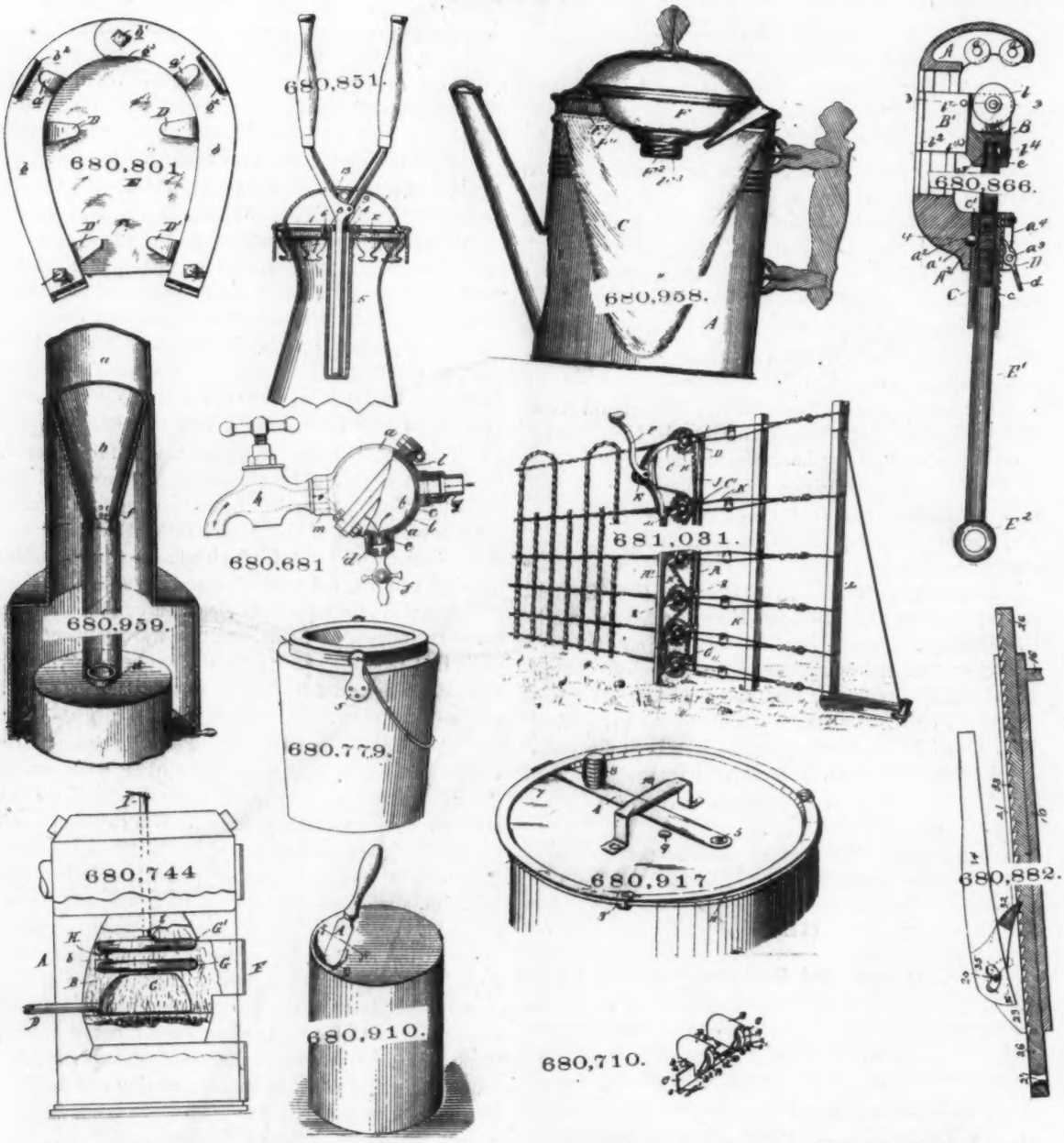
—Detroit Free Press.

Gustam—It went up about 20 points. Quite a rise, wasn't it?

Bustam—Great Scott! what stocks do you refer to?

Gustam—Be calm, old man. I merely referred to the thermometer.—Ex.

Patents.



680,801—Horseshoe. Hugh M. McChesley, Berea, Ohio.

680,959—Stove hood. John E. Bell, Casky, Ky.

680,744—Hot water heating attachment for furnaces. Frank D. Stolz, Chicago, Ill.

680,851—Curling-iron heater. Annie Firth, South Attleboro, Mass.

680,681—Filter for purifying water. Auguste F., Avezard Jr. and Jules E. Clerc, Paris, France.

680,958—Distillation coffee pot. William A. Barrington, Louisville, Ky.

680,866—Pipe cutter. Albert Katzki, Erie, Pa.

680,910—Can opener. John L. Conner, Washington, D. C.

680,031—Wire fence machine. John M. Barber, St. Charles, Ill.

680,779—Milk pail. John H. King, Garrity, Ala.

680,882—Clothes line. John H. McBride, Des Moines, Ia.

680,917—Cover for pots, kettles, etc. Charles H. S. Helling, Alameda, Cal.

680,710—Sash pulley frame. Henry Harig, Cincinnati, O.

THE ODOR OF METALS.

Some metals have a very much more pronounced smell than others. The smell of tin, especially when newly cut, is unmistakable, but it is a moot point whether gold or platinum has any smell that could be recognized by human olfactory organs. Of the rarer metals uranium and all its compounds give the strongest smell, and this gives us the reason why metals should have an odor. Uranium is always giving off what are known as the Becquerel rays, consisting of streams of excessively minute "corpuscles."—Ex.

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Lufkin Rule Co..... 55
Milwaukee Dustless Brush Co..... 48
Montgomery, R. R..... 51
Nat. Enameling & Stamping Co..... 47
Plume & Atwood Mfg. Co..... 52
Schreiber & Conchar Co..... 17
Scullin, T. F..... 51
Sperry, D. R..... 48
Tower Mfg. Co..... 51

Heaters—Hot Water and Steam

American Radiator Co..... 2
Kewanee Boiler Co..... 2
Smith, Chas..... 15

Heaters—Oil.

Standard Lighting Co..... 9

Hog Scrapers

Smith & Hemenway..... 43

Horse Nails.

Old Dominion Iron Nail Works..... 51
Union Horse Nail Co..... 51

Horse-Shoes.

Old Dominion Iron & Nail Works 51

Hose Coupling.

Clayton, Lambert Mfg. Co..... 50

House-Furnishing Goods.

Blacklock Foundry Co..... 45
Chapman, C. A..... 50
Cleveland Stamping & Tool Co..... 49
Enterprise Mfg. Co..... 43
Favorite Novelty Co..... 50
National Enameling & Stamping Co..... 47
Sperry, D. R. & Co..... 48

Knife Sharpeners

Smith & Hemenway Co..... 43

Knives.

Smith & Hemenway Co..... 43

Lanterns.

Dietz, R. E. Co..... 48

Lawn Sprinklers

Smith & Hemenway..... 43

Lemon Squeezers

Smith & Hemenway Co..... 43

Lights.

Quicklight Mfg. Co..... 42

Mantels.

Ironton Wood Mantel Co..... 50

Metal Shingles

Burton, W. J. & Co..... 52
Cortright Metal Roofing Co..... 55
Garry Iron & Steel Roofing Co..... 53
La Crosse Steel Roof & Cor Co..... 53

Metals-Perforated.

Aitchison, The Robt Perf'd Metal Co..... 51
Harrington & King Perforating Co 56

Metallic Shutters.

Berger Mfg. Co. 54
Burton & W J. Co 52
Canton Steel Roofing Co. 53
Garry Iron & Steel Roofing Co. 53
La Crosse Steel Roof & Cor Co. 53

Mica

Asheville Mica Co 44

Mitre Boxes.

Smith & Hemenway Co 43

Nails.

Old Dominion Iron & Nail Works 51
Union Horse Nail Co 51

Nail Pullers

Smith & Hemenway Co 43

Oil and Vapor Stoves.

Ringen Stove Co 3

Paints.

Burton. W. J. & Co 52
Canton Steel Roofing Co 53
Garry Iron & Steel Co 53
Dixon, Jos. Crucible Co 41
La Crosse Steel Roofing & Cor.Co. 53

Paper.

Bradner-Smith & Co 52
Burton, W. J. & Co 52
La Crosse Steel Roof & Cor. Co. 53

Patents.

Jenner, H. W. T 40
Peck, Hubert 40

Plyers and Nippers.

Smith & Hemenway Co 43

Polish.

Buckeye Paint & Varnish Co 44
Hoffman, Geo. W 45

Radiators.

American Radiator Co 2
Rochester Radiator Co 17

Razor Strops.

Smith & Hemenway Co 43

Razors.

Fox Cutlery Co 43
Smith & Hemenway Co 43
Utica Drop Forge & Tool Co 43

Registers.

Auer Register Co 17
Canton Steel Roofing Co 53
Schreiber & Conchar 17
Henry & Scheible Co 16
Independent Register Co 1
Phila. Hdw. Malleable Iron Wks 15

Roofing.

Auld & Conger 53
Berger Mfg. Co 54
Burton, W. J. & Co 52
Canton Steel Roofing Co 53
Cortright Metal Roofing Co 55
East Bangor Consolidated Slate Co 53
Eller, J. H. & Co 52
Garry Iron & Steel Co 53
Klauer Mfg. Co 53
La Crosse Steel Roofing Co 53
Miller, Jas. A. & Bro 53
Montross Metal Shingle Co 52
Osborn, The J. M. & L. A. Co 56
Perkins, J. L. & Co 52
Sykes Steel Roofing Co. 52
Taylor, N. & G. Co 56

Saws.

Atkins, E. C. & Co 56
Disston's Henry Sons 43

Saw Sets.

Smith & Hemenway Co 43

Scales.

American Cutlery Co 55

Screw Drivers.

Smith & Hemenway Co 43

Siding.

Canton Steel Roofing Co 53

Sporting Goods.

Peters Cartridge Co 46
Stevens, J., Arms & Too Co 56

Skylights.

Burton, W. J. & Co 52
Canton Steel Roofing Co 53
Friedley & Voshardt 55
Garry Iron & Steel Co 53
Jones, J. H 2
La Crosse Steel Roof & Cor. Co. 53

Silverplated Ware.

Rogers, S. L. & G.H 47

Stove Bolts.

Atlas Bolt & Screw Co 1

Stove Casters.

Independent Register Co 1
Fanner Mfg Co 16

Stove Lining.

Connors, Wm 1
Bridgeport Crucible Co 44

Stove Patterns.

Acme Pattern Works 44
Cope, Geo. W. Pattern Works 44
Gobeille Pattern Works 44
Indianapolis Pattern Works 44
Weller, F. S 44

Stove Polish.

Ayling Bros 44
Dixon, Jos. Crucible Co 41
Hoffman, Geo. W 45
Wynn, Lewis D 45

Stove Repairs.

Amer. Stove Repair Works 44
Brauer, A. G 44
Brucker, M 45
City Stove Repair Co 45
Dust, Wm. L. Stove Repairing Co 45
Great Western Stove Rep. Wks 44
Morris, J. L 45

Stoves and Ranges.

Beckwith, Estate of P. D 18
Castle, Wilmot Co 17
Cox, Abram Stove Co 4-5
Detroit Htg. & Ltg. Co 10
Detroit Stove Works 13
Detroit Steel Range Co 10
Enterprise Stove Co 11
Galusha Stove Co 8
Joliet Stove Works 7
Pittsburgh Stove & Range Co 8
Portsmouth Stove & Range Co 9
Ringen Stove Co 3
Tinnerman Steel Range Co 15
White, Thos. Stove Co 6
Willard, Wm. G 11

Stove Trucks.

Stellwagen & Kynoch 16

Stove Trimmings.

Atlas Bolt & Screw Co 1
Columbus Bolt Wks 1
Fanner Mfg. Co 16

Tacks.

Tower Mfg. Co 51

Tape Measures.

Lufkin Rule Co 55

Tinners' Tools and Supplies.

Berger Bros. Co 42
Bertsch & Co 42
Chicago House Wrecking Co 51
Dreis, Andrews & Krump 50
Lufkin Rule Co 55
Niagara Machine & Tool Works 55
Perkins, J. L 52
Stanley Rule & Level Co 43

Tinplate.

American Tin Plate Co 54
Burton, W. J. & Co 52
Canton Steel Roofing Co 53
Garry Iron & Steel Co 53
Illinois Roofing & Supply 55
La Crosse Steel Roof. & Cor. Co. 53
Merchant & Co 54
McClure & Co 56
Osborn, J. M. & L. A 56
Taylor, N. & G. Co 56

Tinware.

Cooney & Geiger 52
Enterprise Mfg. Co 48
National Enameling & Stamping Co 47

Tubing.

Canton Steel Roofing Co 53

Ventilators.

Berger Mfg. Co 54
Berger Bros. Co 42
Burton, W. J. & Co 52
Garry Iron & Steel Roofing Co 53
Globe Ventilating Co 1
La Crosse Steel Roof. & Cor. Co. 53

Washer Cutters.

Smith & Hemenway Co 43

Washing Machines.

Benbow-Brammer Mfg Co 49
Brammer, H. F. Mfg. Co 49
Clark, Quien & Morse 49
Randleman & Sons 49

Water Heaters

Smith, Chas. Co 15

A BEAST OF BURDEN.

A southern paper has figured out that man is a beast of burden, and gives the following list of articles that he carries around with him:

"There are two articles—undershirt and drawers—which stick closer than a brother; and then we find pulled up around his shins and ankles two socks. He wears two shoes, unless he was in the war, and two strings are needed to lace them, or twelve buttons or more if they are not lace shoes. He wears one top shirt, one collar, and two cuffs. He wears one coat, one vest, and one pair of trousers, and there are twelve buttons on his trousers, six generally on his coat, and six on his vest. He carries two cuff buttons around with him, two sleeve buttons, and various other buttons on his undergarments. There is one buckle on his trousers, and two on his suspenders. He generally wears suspenders. He wears two garters. He wears one necktie, or sometimes one cravat with one clamper to hold it in place.

"He carries one handkerchief in his pocket. He wears one hat. In the winter he must have two gloves and one overcoat, and maybe two overshoes. But this is not all. He has a watch and chain to carry around with him, a bundle of letters, a package of cards, a plug or sack of tobacco, or maybe a few cigars, a pipe perhaps, a knife, a pencil, and a few other things which usually make up the pocket outfit, such as matches, buckeyes, and other good-luck symbols.

"There is leather in his shoes, with hair in the soles and steel pegs in the heels thereof. There is silk or satin in his cravat or necktie. There are wool, and cotton, and linen, and other things in the clothes he wears. There is straw in his hat. There is starch in his shirt. There are gold, and silver, and pewter, and other metals in the watch and chain he wears. There are brass and bone in some of his buttons. There is tin in his garter clampers and in the clamper which holds his cravat in place. There is glass over the face of his watch. Dye is used in staining his clothes, and one may find here the colors red, white, blue, black, purple, yellow, brown, and almost every other tint. He has paper in his pockets. There is rubber in his suspenders and garters. Paint is found in the figures on the face of his watch, and polish is found on his shoes.

"So, after all, man is really a beast of burden, and when he begins to count up the more than 100 superficialities he carries around with him, and the vast number of factories he represents, if the season is warm, with the thermometer ranging above the 100 mark, he will probably swelter a bit more on account of the vast load he is carrying."

Trade Report.

BRADSTREET'S ON IRON AND STEEL SITUATION.

The enditor of Bradstreets telegraphs us this advanced report on the iron and steel situation:

Iron and steel show little change, accessions to the strikers, in the case of the leading tube works of the country, having been balanced by the reopening of "struck" mills in the Pittsburg district. Tin plates and sheets are scarce and hard to get, and an order for 50,000 boxes at $7 per box was refused this week at Pittsburg. Chicago iron and steel jobbers are reported besieged by buyers. Some western consumers may have to shut down if supplies are not shortly forthcoming. The rail mills and concerns producing structural material have not as yet been affected by the strike. Bessemer billets are very scarce at Pittsburg, and $25 is offered for the next two months' delivery. Pig iron prices could be shaded if a large order was offered.

WIRE NAILS.

Wire nails are experiencing an increased demand. Carload lots are $2.45, and small lots are $2.55.

CUT NAILS.

Cut nails remain at the old figure of $2.35 for small orders.

BARB WIRE.

Carload lots of painted barb wire are quoted at $2.75 and smaller lots are $2.85. Galvanized barb wire is $3.05 in carload and $3.15 in smaller lots.

LINSEED OIL.

City raw linseed oil is 72c to 73c, according to quantity.

WHITE LEAD IN OIL.

White lead in oil is 6½c per lb. in lots of over 500 lbs., and 7c per lb. in lots of less than 500 lbs.

TURPENTINE.

Southerns are 36½c to 37c per gallon, and machine made barrels are 37c to 37½c per gallon.

COPPER.

Copper was very active here and abroad. Prices were steady at 16½c to 16⅝c per lb. for lake, and 16¼c to 16⅜c for electrolytic. Exports from New York were 53 tons to Swansea; arrivals were 65 tons from London. The English market was weak, spot copper declining 6s 3d per ton and futures 10s per ton.

TIN.

There was little demand and the market closed dull but unchanged at 26½c per lb. for spot tin. The Singapore quotation declined 15s to £111 10s per ton c. i. f., London. The question of the American stocks is fairly clear from some points of view. The actual stock in sight and landing on July 31 is variously computed from 800 tons to 2,400 tons, and both are probably right from the view advanced by each party. If the stock is only 800 tons it clearly does not include the quantity actually held (but not actually consumed) by the individual tin plate mills supplied by the trust. It is likely that they have been stocked and here the real danger lies, for in case of the strike in the iron and steel trade being prolonged then the chief support may be absent when it is most needed. The stock, 2,000 tons, advanced by other parties estimates the invisible supply quantity as 1,600 tons in addition to the actual tin in sight, which is arrived at by estimating the average monthly consumption instead of taking over side deliveries as consumption. It will be recollected by some that two years ago it was this invisible supply in America which upset a good many people's calculations, and may easily do so again, but anyhow the broad fact remains that the world's supply of tin is nearly 3,000 tons larger than 12 months ago, with the probability of it steadily increasing.

SPELTER.

Spelter was quiet but firm at 4c per lb. spot to September. London reported the market unchanged at £17 2s 6d per ton. In St. Louis the market was dull at 3.80c asked.

BARS.

Local sellers state that the tonnage booked during the past week is greater than that of any preceding week since the strike commenced. Orders for 1,000 tons and larger lots are numerous. One manufacturer booked 10,000 tons in one day, and the tonnage of other days was not much less than this figure. The inquiry for prompt shipment of material is the most noteworthy feature. Warehouses are rapidly deplenishing their stocks, being able to guarantee quicker delivery than mills. The price of steel bars has been advanced to 1.70c, Chicago, and that of iron to 1.65, Chicago. All the dealers report a heavy business done at these figures. Some state that it is not improbable that steel will be advanced to 2c, in view of the constantly increasing demand.

PLATES.

A good business has been done with the general trade. Most of the mills are behind in deliveries, and jobbers consequently report a heavy movement of stocks from warehouses. Our quotations follow: Tank steel, base, ¼ inch, 1.75c; flange steel, 1.90c to 2c; marine steel, 1.95c; firebox steel, ordinary, 2c to 2.10c; special, 2.25c and upwards. Tank steel from store, 1.90c to 2c; flange steel from store, 2c to 2.10c.

Quotations.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	10x14	$8 75
IX	10x14	10 50
IC	12x12	8 75
IX	12x12	10 50
IC	14x20	8 75
IX	14x20	10 75
IXX	14x20	11 75
IXXX	14x20	13 25
IXXXX	14x20	14 75
IC	20x28	17 00
IX	20x28	20 00
IXX	20x28	23 00

COKE PLATES.

Cokes, 180 lbs	IC	20x28	11 20
Cokes, 200 lbs	IC	20x28	11 50
Cokes, 216 lbs	IC	20x28	11 80
Cokes, 216 lbs	IX	20x28	13 75

PIG IRON.

Lake Sup. Charcoal	$17 50@$18 00
Local Coke Fdy No. 1	16 00@ 16 50
Local Coke Fdy No. 2	15 50@ 16 00
Local Coke Fdy No. 3	15 00@ 15 50
Local Scotch Fdy No. 1	16 00@ 16 50
Local Scotch Fdy No. 2	15 50@ 16 00
Local Scotch Fdy No. 3	15 00@ 15 50
Southern Coke No. 1	14 65@ 15 15
Southern Coke No. 2	14 15@ 14 65
Southern Coke No. 3	14 15@ 14 65
Southern Coke No. 4	13 90@ 14 15
Southern No. 1 Soft	15 40@ 15 55
Southern No. 2 Soft	14 90@ 15 15
Southern Silveries	15 45@ 15 50
Jackson Co. Silveries	17 00@ 17 50
Ohio Strong Softeners	16 50@ 17 00
Alabama Car Wheel	21 00@ 22 00
Malleable Bessemer	16 00@ 17 00
Coke Bessemer	17 50@ 18 50

BLACK SHEET STEEL.

¼ in. 3-16 in. Nos. 8 and 10. per lb.	$3 80
No. 12 per lb.	3 85
No. 14 per lb.	3 90
No. 16 and 18 per lb.	3 95
No. 20, 22, 24, 25 and 26 per lb.	3 90
No. 27 per lb.	4 00
No. 28 per lb.	4 18

SMOOTH STEEL.

		per lb.
Wood's Smooth Steel,	15-17	$4 00
" " "	18	4 10
" " "	20	4 20
" " "	22-24	4 30
" " "	25-26	4 40
" " "	27	4 50
" " "	28	4 60

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON.

Galvanized Iron 65%

SOLDER.

Extra 20½c

Commercial 19½c

SHEET ZINC.

600 lb. Casks, base 7¾c per lb.

COPPER.

Copper base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb. 28¼@28½c
Straits, pigs, per lb. 28 @28¼c
Straits in bars, per lb. 29¼@29 c

LEAD.

American Pig 4.60@4 62½c
Bar 5½@5¾c

HARDWARE.

QUOTATIONS.

(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name higher figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)

ADZES—CARPENTERS'.

Hunt's 25%
White's 12½%
Coopers'—Barton's 12½%
White's 12½%
Ship—Barton's 12½%
White's 15%
Hunt's 25%

AGATE NICKEL STEEL WARE.

Agate Nickel Steel Ware 33⅓&10%

AMMUNITION

CAPS, PERCUSSION—per 1000—

F L Waterproof, 1-10s 50c
G D 40c
Eley's 52c

CARTRIDGES.

Peters Rim Fire Ctgs 50&3%
Peters Cent Fire, Pistol & Rifle 25&3%
Peters Cent Fire, Military and Sporting Ctgs 15&5%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.
Peters Blank Ctgs. 22 cal 10&10%
Peters Blank Ctgs. 32 cal 10&10%
Peters B B Caps, Round ball $1 18
Peters B B Caps, Conical ball $1 90
U. M. C. Rim Fire Ctgs 50&3%
U.M.C. Cent. Fire, Pistol & Rifle 25&3%
Winchester Cent. Fire, Military and Sporting Ctgs 15&8%
U. M. C. Blank Ctgs. 29 & 32 cal 10%
U. M. C. Blank Ctgs. 38 cal. 50-10-10%
U. M. C. B B Caps, Round Ball $1 75 25&10%
U .MC. B B Caps, Con. Ball. $2 00 net
U M. C. Rim Fire Shot Ctgs 50&15&3%
U. M. C. Cent. " " " 25&10&3%

PRIMERS.

Berdan Primers $1 00
Peters Primers 1 10
U. M. C. Primers 1 08
Winchester Primers 1 08

SHELLS.

Peters Empty Paper Shells, 10 and 12 gauge. League 25&5%
Peters Empty Paper Shells, 16 gauge. League 20&5%
Peters New Victor Nitro shells 15%
Ideal 33⅓&10%
Peters Loaded Shells. League and Semi Smokeless 40&5%
Peters New Victor Loaded Shells, with King's Smokeless 40&10&10%
Ideals Loaded with Kings Smokeless 40&10&10&5%
U. M. C, New Club, 16 guage 20&10%
U. M. C. New Club 10 & 12 gauge 33⅓&5%
U. M. C. New Club 33⅓&5%
U. M. C. Nitro 18%
U. M. C. High Base 18%
U. M. C. Trap 33⅓&10&7%
Winchester Blue Rivals } 20%
Winchester Yellow Rivals }
Winchester Repeater 18%
Winchester Leader 33⅓&10&7%
U. M. C. Loaded Shells. Black Powder } 40&5%
Winchester Loaded Shells, Black Powder }
U. M. C. } Smokeless
Winchester } 40&10&10&5%

GUN WADS—per 1000.

Peters Gun Wads 20&5%
U. M. C. Gun Wads 20&5%

POWDER.

King's Quickshot Powder; Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.
King's Semi-Smokeless 20&5%
King's Smokeless 25, 20 & 10
Austin Quickshot Powder, Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.
Dupont Smokeless, Sporting 25, 20 & 10c.

SHOT.

Drop shot, sizes smaller than B, 25-lb bags, per bag $1 35
Drop shot, B and larger sizes, 25-lb bags, per bag 1 00
Buck Shot, 25-lb bags, per bag 1 00
Chilled Shot, 25-lb bags, per bag 1 00

ANVILS.

Hay-Budden, 70 to 84 lbs 10c per lb
Hay-Budden, 85 to 150 lbs 9c per lb

AUGERS AND BITS.

Snell's Boring Mach. Augers 60&10&5%
Snell's Car Bits, 12-inch twist 40%
Jennings' Pattern Auger Bits 50&10%
Russell Jennings' Augers and Bits 25&10%
Ship Augers, L'Hommedieu Bits 15%
Irwin 50%
Climax Bits 60&10%

AWLS.

Brad, handled per doz. $ 35
Brad, shouldered, assorted 1 to 4 per gr. 2 00
Brad, shouldered, assorted 1 to 6 per gr. 2 50
Peg, Pat per gr. 60
Peg, shouldered per gr. 1 00
No. 1, Scratch, handled per gr. 4 80
No. 5, Scratch, socket per doz. 6 00

AXES.

Lippincott	per doz	6 50
Mann	"	6 50
Second quality	"	6 00
Beveled axes, add	"	50
Broad—		
Peerless can patt	"	28 50
Hunt's	"	30
White's	"	12%
Hand—		
Hunt's	"	40
White's	"	12%
Ship—		
White's	"	12%

AXLES.

Common iron, long arm, sq. bed 5¼
Concord iron. long arm, sq. bed 6¼
Concord express, long arm, steel, square bed 6¾
Coach shape on above, ex. per. lb. ⅛
Short arms on above, extra per lb. 2
Welded axles on above, ex. per. lb 1½
Half Patent, steel, Nos. 7 to 14 70
Half Patent, steel, Nos. 19 to 22 70
Extra, coach shape, 1¼ & smaller per set 15
Extra, coach shape, 1¼ 1½, per. set 30
Extra, coach shape, l'g'r, per. set $1 00
National Wrought Steel Tubular, Self Oiling—
Standard Farm (1 to 5) and Special Farm (A1 to A5) less than ten sets 20%
Over ten sets 25

BEAMS—SCALE.

Scale Beams, List Jan. 12, 82 35%
Frary's 40%
P. S. & W. 30%

BELLOWS.

Blacksmiths 70%
Hand, 6½ in per doz. $4 50
Molders', 10 in per doz. 9 00

BELLS.

COW.

Ordinary Goods 70&10%
High Grade 60&10%
Jersey 75&10%
Texas Star 50&10%

DOOR.

Abbe's Gong 45%
Barton Gong 55%
Home, R. & E. Mfg. Co.'s 55&10%
Lever and Pull, Sargent's 20&10&10%

HAND.

Hand Bells, Polished 60@60&10%
White Metal 55@55&10%
Nickel Plated 50@50&10%
Swiss 60%
Silver Chime 33⅓@33⅓&10%

MISCELLANEOUS.

Farm Bells lb. 2¼ to 2½c
Steel Alloy, Church and School 50&10&5@60%
Wilmot & Hobbs Mfg. Co., Gongs 70%

BIT STOCK DRILLS.

Standard List 60@60&5%

BLOCKS.

Common Wooden 70%
Eddy Steel Tackle Blocks 60%&5%

BOLTS.

CARRIAGE, MACHINE, ETC.

Common, list Jan. 30, 95 65%
Norway Iron, $3.00, list Oct. 7, '84 75&10%
Bolt Ends, list Jan. 30, '95 50&10%
Machine, list Sept. 20, '99 65&10%

DOOR AND SHUTTER.

Ives' Patent Door 60%
Wrought Barrel, Standard list 70&10%
Wrought Flush 40&10%
Wrought Square, Standard list 65%

STOVE AND PLOW.

Plow 40&10%
Stove, list December 28, 1899 70 to 70&10%

TIRE

Common, list Dec. 28, '99 70%
Eagle Philadelphia 72½%
Norway 75%

BORING MACHINES.

Jenning upright without Augers $2 00

BOXWOOD RULES.

No. 4	$11 00	per doz
" 12	16 00	"
" 18	6 00	"
" 26	11 00	"
" 27	13 00	"
" 29	4 50	"
" 66	10 00	"
" 66½	10 00	"
" 67	6 00	"

Boxwood 80&10%
Ivory 40&10%
Lufkin's Steel 50&10%

BRACES.

Barber's 59&10%
Common Ball, American $1 50
Fray's Genuine Spofford's 60%
Fray's No. 307 to 322 40&5%
Fray's No. 508 to 522 50%

BRACKETS.

Cast Iron Plain 50&10%
Wrought Steel 70&10 @ 75%
Bradley's 75 @ 75&10%

BROILERS.

Wire Goods Co 75%

BUTTS.

Bright Butts, Nos. 800, 802, 804, 806, 808, 810, 814, 816, 818, 820, 854 70%
Bright Butts, Nos. 826, 828, 829, 830, 832, 834, 836, 838, 840, 842, 843, 844, 845, 846, 848 70%
Bright Butts, Nos. 822, 822½, 823, 823½ 70%
Japanned Butts, Nos. 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 726, 727, 728, 729, 730, 731 70%

CAGES—BIRD.

Enameled 40%
Brass 1200 series 33⅓%

CASTERS.

Bed 60&10&5%
Plate Casters 60&10&5%
Martin's Patent (Phoenix) 50&5%

CHAIN.

American Coil, Cask lots:

3-16	¼	5-16	⅜	7-16	½	9-16
7.45	5.55	4.55	3.70	3.55	3.45	3.40

⅝	¾	⅞ to 1	1⅛ to 1¼ inch
3.40	3.35	3.35c. per lb.	3.00 per 100 lbs

Less than Cask lots add 25c.
German Coil, list July 24, '97 60&10&10%
German Halter Chain, list July 24, '97 60&10&10%
Traces, Western Standard: 100 pair
6½—6-3, Straight, with ring $26.00
6½—6-2, Straight, with ring 27 00
6½—8-2. Straight, with ring 31.00
6½—10-2, Straight, with ring 34.50
Add 2c per pair for Hooks.
Twist Traces 2c. per pair higher than Straight Link.
Trace, Wagon and Fancy Chains Eastern list 60@60&5%
Jack Chain, lis July 10 '98
Iron 60@60&10
Brass 60@60&1

Safety Chain.....70@70&10%
Gal, Pump Chain.....lb. 4½@4¾c
Covert Sad. Works:
Breast, Hitching and Rein Chains.....50%
Covert Mfg, Co.:
Breast.....35&2%
Halter.....35&2%
Heel.....35&2%
Rein.....35&2%
Stallion.....35&2%
Oneida Community:
Eureka Coil and Halter...60@60&5%
Niagara Coil and Halters.60@60&5%
Niagara Cow Ties..45&5@45&10&5%
Am, Coil and Halters..50&10&5@60%
Am. Cow Ties.....35&5@40&5%
Wire Goods Co.:
Dog Chain.....60&10%
Universal Dbl-Jointed Chain....50%

CHALK.

Blue.....per gross 60c
Red..... " 50c
White..... " 45c

CHALK LINES.

Chalk lines.....per doz. $2 50

CHISELS.

Mix, Witherby.....70&5 to 70&10%

CHISELS.

Box.....20%
Tinners.....40%
Cold, per lb., regular qual.....20%
Cold, per lb., special qual.....32½
Corner.....662⅔%
Firmer, American..... 20, 10&10%
Barton's.....20%
Butcher's.....40&10%
Mortice, Butcher's.....40&10%
Socket, Firmer.....70%
Framing.....70%
Turning, Barton's.....20%
Butcher's.....50%
Beveled.....20%

CLAMPS.

No. 25 Adjustable.....50&10 to 60%
Carriage Makers.....50&10&5%

CLEANERS.

Pot.....per doz $1 10

CLEAVERS.

Beatty's.....dis 40
White's..... " 15

CLIPPERS.

E. H. Hotchkiss Horse Clippers
No. 10.....per doz $18 00
No. 30..... " 15 60
No. 22..... " 13 80
No 20..... " 13 20
No. 8..... " 10 80
H. Hotchkiss Toilet Clippers
No. 1.....per doz 9 60
No. 101..... " 10 80
No. 201..... " 10 80
No. 300..... " 13 20
No. 500..... " 15 00

COFFEE MILLS.

Enter. Mfg. Co., list Jan. 17, '93....25%
Parker's.....50&10%
Arcade..... 60&10%

CORKSCREWS.

Howes..... 25 & 22%
Humason & Beckley..... 40 & 10%
Empire..... 40%
Walker's..... net
Williamson's Regular..... 40%
Williamson's Forged Worm 40%

DOG COLLARS.

Pope & Stevens' List:
Brass (full Assortment).....net price

DOOR CHECKS.

Blount.....30%
Eclipse.....30%
Corbin.....30%

DRILLS AND DRILL STOCK.

Common Blacksmith's Drill ..... $1 50@$1 60
Bench Drills, Stearns' .....5 50& 6 00
Blacksmith's Self-feeding, each, ... $5 00&$7 00
Breast, Millers Falls, each .$3 00 20%
Godell Automatic Drills,$12 00to$15 00

EGG BEATERS.

Standard Co.:
No. 5 Steel Handle Dover per gross..... $ 6 50
No. 10 Cast Handle Dover pr gr 8 00
No. 10 Steel H'ndle Dov'r pr gr 8 00
No. 15 Extra Heavy Steel Handle per gr..... 15 00
Rival per gr..... 10 00
Taplin Mfg Co.:
No. 50 Small Family size pr gr 6 50
No. 100 Regular Fam size pr gr 8 00
No. 102 Regular Family size tinned pr gr..... 9 50
No. 150 Large Fam size pr gr.. 15 00
No. 152 Large Family size tinned pr gr..... 17 00
Lyon's Standard size per doz.. 1 75
Wonder (S. S. & Co.) per gr.... 7 50

ENAMELED WARE.

Peerless (L. & G. Mfg. Co.).....Net
Royal (N. E. & S. Co.).....Net

FASTENERS, BLIND.

Zimmerman's.....50&10%

FAUCETS.

Standard Metal Key.....25%
B. & L. B. Co.
Redlich's Wood Faucets.
Red Cedar, Oak, Cherry, Cork Lined, Metal Key..... Net Prices.
Self Measuring:
Enterprise, per doz. $36 00.....40%
Cork Lined.....70&5@70&10&5%
Metallic Key, Leather Lined .....70@70&10%
Red Cedar.....50@50&5%
B. & L. B. Co.:
West's Lock, Open and Shut Key.....50&10%
John Sommer's Peerless Tin Key..40%
" " Boss Tin Key 50%
" " Victor Metal Key..50&10%
" " Duplex Metal Key....60%
" " Diamond Lock.....40%
" " I X L Cork Lined ...50%
" " Reliable " " ..50&10%
" " Common " " 70%
" " Chicago " " 60%
" " O K " " 50%
" " Perfection Cedar.....40%
Star.....60@60&5%
Star, Metal Plug new list... 40@40&5%
Lockport, Metal Plug, reduced list.....60&5%
McKenna, Brass:
Burglar Proof, N. P.....35%
Improved, ¾ and ⅞ inch.....35%
Self Measuring:
Enterprise, per doz $36.00.....40%
Lane's, per doz. $36.00.....40&10%
National Measuring, per doz $36.00.....40%

FILES—Domestic.

New List, Nov. 1, '99:
Black Diamond.....70&10%
Disston's.....75& 5%

Imported.

Stubs list.....5%

FORKS AND HOES.

Coke and Cottonseed Forks....40&5%
Coal Forks.....40&5%
Barn or Ice Forks.....40&5%
Beet Forks.....30&10
Ballast or Stone Forks.....40&5%
Tanners' Forks.....40&5%
Shaving Forks.....40&5%
Potato Scoop Forks.....40%
Oyster Forks.....40&5%
Sluice Forks.....40&5%
Heavy Mill, Manure or Street Forks.....70%
Steel Tar or Asphalt Rakes.....65%
Asphalt Hoes.....65%
Two Tine Hay Forks, Std. Size...65%
3 Tine Hay Forks, Std. Size..60&16⅔%
Four Tine Hay Fork, Std. Size 66⅔%
Socket Four Tine Hay Forks..66⅔&5%
Socket Four Tine Manure Forks...70%
Socket Four Tine Spading Forks .....70&5&5&2½%
Three Tine Hay Header and Baler Forks.....67½&2½%
Four Tine Hay Header and Baler Forks.....66⅔%
Grain or Barley Forks.....70&6%
Four Tine Manure Forks.....70%
Five & Six Tine Manure Forks.....70%
Spading Forks.....70&2½%
Potato Digging Forks.....65%
Stone Picking Forks.....65%
Garden Hoes.....75%
Meadow and R. I. Hoes...75&5&2½%
Sunbeam Meadow Hoes.....75&5&½%
Mortar and Street Hoes.....75&2%
Planter Hoes, Regular Pattern.70&30%
Tobacco Hoes.....75&20%
Cotton Hoes.....70&10&10&5&2%
Rough Fin. Shank Cot. Hoes 75&12½%
Cotton Chopper Hoes....75&10&7½%
Ladies' Cotton Hoes.....75&10&7½%
Malleable Rakes.....70@70&10%
Toy Ladies' and Boys' Hoes.....70&10to70&10&5%
Weeding Hoesand Rakes...70@70&5%
Potato Hooks.....65to65&10%
Hop Hooks.....60&10&2½%
Steel Garden Rakes.....70&2%
Steel Garden Rakes Stamped blank 70%
Turf Edgers.....60&5%
Steel Road Rakes.....65%
Special Mortar Hoes.....40&10&2½%
Harpers' No. 7 Mortar Hoes.... .65%
Truck Hoes.....50&10&2%
Hoes.....65%
Special Hoes.....75&10&2%
Hoe Down Hooks.....75&10&2%
Warren Hoes.....50&10&7½%
Laid Steel Edge Hoes.....25, 5&2%

GAUGES.

Marking, Mortise, etc.....60%
Stanley R. & L. Co.'s Butt & Rabbet Gauge.....Net
S. & H. Cos.....75%

GIMLETS.

Gimlets.....60%

GLASS CUTTERS

Woodward.....33⅓&10%
Red Devil.....33⅓&10%

GLUE POTS.

Tinned.....30%
Enameled.....35%

GLUE.

Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List

GREASE, AXLE.

Fraser's.....Ne
Baum's Castorine.....Net

GRINDSTONE FIXTURES.

Stowell's..... Net
Reading Hardware Co.....Net

HAMMERS.

"Artisan's Choice," A. E. Nail.40&10%
Engineer's and B. S. Hand.....60%
Machinist's Hammers.....60%
Bell Face, A. E. Nail.....50
S. & H. Cos. No. 20 ....per gross. 5 25

HANDLES—IRON, WROUGHT OR CAST—DOOR OR THUMB.

No. 0.....per doz $0 90 } Dis'ns
No. 1..... " 1 00 } 50
No. 2..... " 1 18 } 50
No. 3..... " 1 35 } 50
No. 4..... " 1 50 } 50
Bronze iron drop lat., per doz net $1 10
Japanned store door.....net 1 10
Barn door No. 5..... " 1 35
Chest and lift.....dis 50
Wood—
Saw and plane..... " 45
Hammer, hatchet, axe, etc.... " 45
Brad awl.....per gro. 45
Hickory firmer chisel, Apple firmer chisel, Socket firmer chisel, Socket framing chisel, ..25
File.....per gro. $2 80
Auger, assorted..... 5 00
Hoe, rake, shovel, etc..... 50
Cross Cut Saw—
Atkins' No. 1.....per pair 28
" No. 3..... " 18
" No. 6..... " 12
Triumph..... " 12
Common loop..... " 10

HANGERS.

Chicago Spring Butt Co.:
Friction.....25%
Oscillating.....25%
Big Twin.....25%
Cronk Hanger Co.:
Loose Axle.....60%
Roller Bearing.....60&10%
Lane Bros.:
Parlor, Ball Bearing $4.00
Parlor, Standard 3.25
Parlor, New Model 2.75
Parlor, New Champion..... 2.40
Barn Door, Standard .....60&10%
Covered .....50&10&10&5%
Special .....60&10%
Lawrence Bros.:
Advance.....60%
Cleveland .....60&10%
Crown.....60%
New York.....60%
Peerless .....60&10%
Sterling 60%
McKinney Mfg. Co.:
No. 2, Standard, $18.....60&10%
No. 1, Special, $13.....60&10%
Stowell Mfg. and Foundry Co.:
Acme Parlor Ball Bearing 40%
Atlas.....50&10%
Badger Barn Door.....50%
Baggage Car Door.....50%
Climax Anti-Friction.....50%
Elevator 40%
Express.....50%
Interstate .....50&10%
Lundy Parlor Door.....50%
Matchless.....50&10%
Nansen.....60&10%
Stowell Parlor Door 50%
Railroad 50%
Street Car Door.....50%
Steel, Nos. 300, 404, 500.....40&15%
Wild West.....50%
Zenith for Wood Track 50%
Taylor & Boggis Foundry Co.:
Kidder's .....50@50&10%
Wilcox Mfg. Co.:
Bike Roller Bearing .....60&10%
C. J. Roller Bearing.....60&10%
Cycle Ball Bearing.....50%
Dwarf Ball Bearing.....40%
Ives, Wood Track.....60&10%
L. T. Roller Bearing.....60&10&5%
New Era Roller Bearing .....50&10%
O. K. Roller Bearing.....60&10&5%
Prindle, Wood Track 60%
Richards' Wood Track 60%
Richards' Steel Track .....50&10%
Spencer Roller Bearing.....60&10%
Tandems, Nos. 1 and 2.....60%
Underwriters' Roller Bearing....40%
Wilcox Auditorium Ball Bearing 20%
Wilcox Barn Trolley No. 123 ....40%
Wilcox Fire Trolley, Roller Bearing 30%
Wilcox Le Roy Noiseless Ball Bearing 40%
Wilcox New Century ....50&10&10%
Wilcox Trolley Ball Bearing.....40%

HATCHETS.

American Axe and Tool Co., Blood's, Hunt's, Hurd's, Mann's, Underhill's, C. Hammond & Son., Fayette R. Plumb.... 40&10%to40&10 &5%

HAY AND STRAW KNIVES.

Lightning.....$6 50&$7 00

HINGES.

BLIND AND SHUTTER.

Surface Gravity Locking Blind: (Victor; National; 1868 O.P.; Niagara; Clark's O. P.; Clark's Tip; Buffalo.)
No.....1 3 5
Doz pair.....$0.75 1.45 2.90
Mortise Shutter: (L. & P., O. S., Dixie, &c.)
No.....1 1½ 2 2½
Doz. pair.....$0.60 55 52 45
Mortise Reversible Shutter, (Buffalo, &c.)
No.....1 1½ 2
Doz. pair.....$0.65 .60 .55
Parker.....70@75%
North's Automatic Blind Fixtures, No 2, for Wood $9.00; No. 3, for Brick $11.50.....10%
Reading's Gravity.....75&10%
Sargent's, No. 1, 3, 5.....66⅔&10%
Sargent's, Nos. 11 & 13.....70&10%
Wrightsville H'dware Co.:
O. S., Lull & Porter.....80&2½%
Acme, Lull & Porter.....75&10%
Queen City Reversible.....75&10%
Stenger's Positive Locking, Nos 1 & 3.....70&10&5%
Shepard's Noiseless, Nos. 60, 65, 55 .....70&10%
Niagara, Gravity Locking, Nos. 1, 3 & 5.....75&7½%
1868, Old Pat'n. Nos. 1, 3 & 5 75&7½%
Tip Pat'n, Nos. 1, 3 & 5.....75&7½%
Buff, Gravity Lock., 1, 3, 5..75&7½%
Shepard's Double Locking, Nos. 20 & 25.....70&10%
Champion Gravity Locking, No 75 .....75&7½%
Steamboat Gravity Locking, No 10 .....5&7½%
Pioneer, Nos 060, 45 & 5½..75&7½%
Empire, Nos 101 & 103.....70&7½%
W. H. Co's Mortise Gravity Locking No. 2.....60&10%
Stanley's Steel GravityBlind Hinges, per doz. sets $1.30.....30&10%

GATE.

Clark's or Shepard's—Doz. sets:
No.....1 2 3
Hinges with Latches$1.90 2.50 3.85

Hinges only..... 1.30 1.90 2.90
Latches only..... 65 65 95
New England:
With Latch.....doz....@$1.55
Without Latch.....doz....@$1.25
Reversible Self-Closing:
With Latch.....doz....@$1.80
Without Latch.....doz ...@$1.45
Western:
With Latch.....doz. $1.40@1.75
Without Latch.....doz. $0.95@1.30
Wrightsville H'dware Co.:
Shepard's or Clark's Nos. 1 & 2... 65&2½%
Shepard's or Clark's, No. 3....55&5%

SPRING

Holdback, Cast Iron, gros. $8.00@8.25
Non-Holdback, Cast Iron..... gro. $6.75@7.25
Extra 10% often given on most of these hinges.
J. Bardsley:
Bardsley's Patent Checking 15%
Bommer Bros.:
Bommer Spring Hinges 40%
Bommer Ball Bear. Floor Hinges.40%
Chicago Spring Butt Co.:
Chicago.....20%
Floor Hinge.....40%
Garden City Engine House.....20%
Keene's Saloon Door 20%
Triple End.....40c
Hoffman Hinge & Foundry Co.:
No. 70 & 80 Holdback Detachable $8.50
Lawson Mfg. Co.:
Matchless 30%
Matchles Pivot.....35%
Payson Mfg. Co.:
Oblique.....50&10%
Stover Mfg. Co.:
Ideal, No. 16, Detachable, per gr. $12.50
Ideal, No. 4.....per gr. $9.00
New Idea No 1.....per gr. $9.00
New Idea, Double Acting.....45%

WROUGHT IRON

Strapand T Hinges, list Mar. 15, 1901:
Light Strap Hinges.....75%
Heavy Strap Hinges.....80%
Light T Hinges.....70%
Heavy T Hinges.....66⅔%
Extra Heavy Hinges.....75&10%
Hinge Hasps..... .....60%
Cor. Heavy Strap.....80%
Cor. Ex. Heavy T.....75&10%
Screw Hook and Strap:
6 to 12 in.....lb. 3¼c
14 to 20 in.....lb. 3¼c
22 to 36 in.....lb. 3 c
Screw Hook and Eye:
¾ to 1 inch.....lb. 5c
⅜-inch.....lb. 6c
½-inch..... .....lb. 7c

MISCELLANEOUS—

Hoffman's Steel Spring Butt Hinges 40&10%
Hoffman's Offset Refrigerator Hinges 40&10%

HOLLOWWARE.

Stove Hollowware Ground.....50%
Maslin Kettles.....70&10%

HOOKS.

Picture, No. 299 ....&28c

BUSH HOOK.

No. 1, Underhill $9 00
Bird cage 40%
Clothes line .....60&10&10%
Grapling.....50%
Ceiling.....60&5%
Coat and Hat .....60&5%
Harness .....60&10&10%

WROUGHT IRON.

Cotton, V. & B.....25%
Tassel and picture.....50%
Wire, Coat and Hat, Gem.....net
Indestructible..... 45%
Brass .....net $2 0[illegible]
Hooks and eyes, bright wire....80&10%
Brass.....60&10&5
Fish hooks, American.....50%

HOSE—RUBBER.

Competition.....dis 70&10%
Standard 70%
Extra 60%
N. Y. Rubber Co.'s st'd.....50&10%
Banner.....60%
Extra..... 50%

IRONS—SAD AND POLISHING.

Mrs. Potts' No. 50.....70c
Mrs. Potts' No. 55.....70c
Mrs. Potts' No. 60.....90c
Mrs. Potts' No. 65..... 85c

KNIVES.

Standard List.....70&5%
Adjustable Handle.....25@33⅓%
Watrous.....30&10@40%
Cantelo's Folding.....25%
Improved Crown.....20%

KNOBS.

Base, 2½in. Birch Rubber tip ℔ gro.....$1 40
Door, Mineral.....℔ doz. 65c
Door, Por. Jap'd.....℔ doz. 75c

LADLES.

Reading.....Net
Sargent's.....Net

LANTERNS—TUBULAR.

No. 0 Berger's "Bail Lift," per doz. $9 50.....40&10%
No. 0, Berger's "Bail Lift," Galvanized, per doz. $10 50...40&10%
No. 2 Berger's "Bail Lift," per doz. $13 00.....40&10%
No. 2 Berger's "Cold Blast," per doz. $16 00.....40&10%
No. 0 Berger's Dash Board, Japaned, Plain Globe, per doz. $13 00.....40&10%
No. 0, Berger's Dash Board, Japanned, Bull's Eye, per doz. $13 50.....40&10%
No. 2, Berger's Dash Board, Japanned, Plain Globe, per doz. $17 00.....40&10%
No. 2, Berger's Dash Board, Japanned, Bull's Eye, per doz. $17 50.....40&10%

BULL'S EYE POLICE.

2¾-in. flash light, per doz. $3 50@$3 75
3-in. flash light, per doz....4 00@ 4 25
4¾-in. regular, per doz.....3 50
3-in. regular, per doz.....3 57

LEMON SQUEEZERS.

Wood, Common, per gr., No. 0 $5 00; No. 1 $6 50; No. 2 $10 00.

Wood, Porcelain lined, No. 1.....per doz. $3 00@$3 50
Tinned Iron.....per doz. 1 25
Iron, Porcelain Lined, per doz.....3 25@ 3 50
Jenning's Star...per doz. 1 85@ 1 90
King.....per doz.

LOCKS.

Plate 33⅓%
Slaymaker-Barry Co.....30&35%
Sargent & Co.....40, 40&10%
Yale flat key.....net
L. & C, round key.....30&10%
Reading Harding Co.....40%
L. & C. flat key latches .....33&10%
Stearns' sliding door....net $15 00

CABINET.

Eagle.....33⅓%
Yale.....33⅓%
Eagle and Corbin trunk.....25%

PADLOCKS.

Wilcock's..... 70%
M. W. & Co..... 70%
Russell & Irwin 70%
Slaymaker Barry Co..... 40%
Bohannon's brass..... 30%
Yale.....net
Eagle 33⅓%
Eureka, Eagle Lock Co 40%
Corbin.....33⅓&10%

MALLETS.

Fiber Head Sterns.....30&10%
Hickory.....40%
Lignumvitæ .....40&40&10%
Tinners'. Hickory and Applewood, per doz. .....75c@$1 50

MATTOCKS.

Regular list.....70%

MOWERS, LAWN.

Cheap.....all sizes, $2 00@$2 10
Good.....all sizes, $2 50@$2 75
10 12 14 16-in
High Grade....4.25 4.50 4.75 5.00
Pennsylvania and Continental .....Net price
Genuine Philadelphia Mowers:
Styles M. S., C., K., T.....70&10%
Style A, (all steel).....60&10%
Style E, Low Wheel.....60&10%
Style E., High Wheel.....70&10&5%
Drexel, low list.....60%
Gold Coins, low list.....60%
Dewey's.....Net prices
All Day .....Net prices

NAIL PULLERS.

Giant, No. 1..... per doz., $18 00. 40%
" No. 1½.... " 16 00. 40%
" No. 2..... 15 00. 40%

Ajax.....Net prices.
Diamond B.....per doz., $ 9 00
Pipe.....per doz., 12 00
Eureka.....per doz., 10 00

NAIL SETS.

Octagon..... per gross, $8 00@$9 00
Round..... per gross, 8 00@ 9 00
Cannon's Diamond Point, per gross .....$9 00 Net

NUT CRACKERS.

Sargent's No. 12.....$1 50

OILERS.

Tin or Steel.....50%
Zinc..... 50&10&5 to 60%
Malleable Hammers 35%
Malleable Hammers, old pat., same list .....Net

PADLOCKS.

Sargent Dog Collar 70%
Sargent Wrought Steel and Brass..80%

PINCHERS.

Carpenters', wrt. iron, pol. steel jaws..... 25%
Blacksmiths'..... 40%
P. S. & W..... 25%

PIPE.

WROUGHT.

List February, 1898.
1¼ and under, plain.....50&2½%
1½ and under, gal.....50&2½%
1¼ and over, plain.....50&2½%
1½ and over, gal..... 50&2½%
Boiler tubes..... 50&2½%

PLANES.

Stanley Planes, No. 100.....$.30 each
" " No. 130..... .25 each

PLIERS AND NIPPERS.

Swedish Side Cutting Pliers 40%
" End " " 40%
" Diagonal " " 40%
Halls Compound Nippers.....40%
U. D. F. & T. Co., all kinds.....Net

PLUMBS AND LEVELS.

Common.....75 to 75&5%
Disston's.....60%

POACHERS.

Buffalo Steam Egg No. 1, per doz. $7 20. 50%

POLISH.

POLISH—METAL.

U. S. Metal Polish Paste, 3 oz. boxes, per dozen, 50c; per gr. $4.50; ½lb boxes, per doz. $1.25; 1 lb boxes, per doz.....$ 2 25
U. S. Liquid, 3 oz. caus, per doz. $1.25; per gr..... 12 00
Barkeepers' Friend Metal Polish, per doz. $1.75, per gr..... 18 00
Universal Paste, 3 oz. boxes.....60%
Burnishine Liquid 5 lb..... 16 00

POLISH—STOVE.

Dixon's .....per gross, $5 75
Dixon's Plumbago.....per lb 6½c

POPPERS, CORN.

Round or Square, 1 qt....per doz., 65c
Square, 1½ qt.....per doz., $1 00
Square, 2 qt.....per doz., 1 00

POST HOLE AUGERS AND DIGGERS.

Iwan's Patent Post Hole Auger....40%
Eureka Perfection Post Hole Digger, per doz.....$10 00
Atlas, per doz..... .... 8 25

POWDER.

IN CANISTERS.

Duck, 1 lb each.....45c
Fine Sporting, 1 lb each.....75c
Rifle, 1 lb each..... ....$1 00

IN KEGS.

Duck, 6½ lb kegs.....$2 50
Rifle, 6½ lb kegs..... ..... 1 25
Rifle, 12½ lb kegs..... 2 25
Rifle, 25 lb kegs..... ..... 4 00

PRESSES — FRUIT AND JELLY

Enterprise Manufacturing Co.....25%

PULLEYS.

Hay Fork, Svl, Sd Eye, doz $1 75@$2 75
Hot House, Awning, etc.....50%
Japanned Clothes Line.....50%
Japanned Screw.....50&10%
Japanned Side..... .....50&10%
Sash (Auger Mortise):
Common Sense, 1¾ in ..per doz. 19c
Common Sense, 2 in ... per doz. 20c
Empire.... ....17c.; 2 in., 22c

SASH PULLEYS.

Fox No. 3 or No. 7, 2½ wheel, ...25c per doz
Fox No. 9, 1¾ wheel.....20c per doz
Extra for plated Finish....25c per doz
Extra for Anti-Friction Bronze Bushing.....10c per doz

RAZORS.

Fox Razors No. 42....per doz. $20
" " " 44.... " " 24 00
" " " 82..Platina " 24 00
Discount 40%
Rantankarus..... " 16 00

REGISTERS.

Black Japanned Registers, Ventilators, Faces and Borders, ...60 to 60&10%
White Japanned Registers, Ventilators and Faces.....50%
Bronzed Finishes in Imitation of Gold, Silver, Copper or Bronze .....40&10%
Nickelplated..... ....60%
Electro-Plated in Brass, Bronze, Copper or Oxidized Silver....40&10%
White Porcelain.....20%
Solid Brass and Bronze Metal.....20%

RIVETS AND BURRS.

Coppered Iron Rivets.....60&5%
Tinners Rivets.....60&5%

ROOFING SUPPLIES.

EAVE TROUGH.

"Perfection" Galvanized Eave Trough.....75&10%
"Eclipse" Galvanized Eave Trough.....75&10%
Double Bead Galvanized Slip Joint Eave Trough.....75&10%
Double Bead Galvanized Lap Joint Eave Trough.....75&10%

GUTTERS.

Roof Gutters, Galvanized.....75&10%

PIPE.

Plain Round Pipe, Galvanized, Nested.....60&20&2½%
Plain Round Pipe, Galvanized, Unnested.....60&20%

VALLEYS.

Valleys, in Rolls, IC and IX Terne.70%
Valleys, in Sheets, IC and IX Terne.....70%

HOOKS.

Flashing Hooks.....50%
Wrought Conductor Hooks.....60%

CUT-OFFS.

Kuehn's Galv.....60%
Acme Galv.....10&10%
Acme Tin.....60&10%
Centennial Tin.....20%

EAVE TROUGH HANGERS.

Eave Trough Hangers, Single and Double Bead, Imperial.....10%
Eave Trough Hangers, Single and Double Bead, Wire.....

ELBOWS.

One Piece Conductor Elbows, Galvanized, Corrugated..... 60%
Adjustable Elbows, Tin. 50%

PREPARED ROOFINGS.

Imperial 2-ply Tarred Roofing complete.....$1 75 per sq.
Imperial 3-ply Tarred Roofing, complete.....$2 00 per sq.

ROPE.

Per lb.
Manilla, 7-16 inch diameter and larger.....9¾@10c " "
Manila, ⅜ in.....9¾@9¾c " "
Manila, ¼ and 5-16 in..... 10¾@10¾c " "
Sisal 7-16 in. and larger 7@7¾c " "
Sisal, ⅜ inch .....8@8¾c " "
Sisal, ¼ and 5-16 in.....8@8¾c " "
Sisal, Medium Lath Yarn ... 9@9¾c " "

SASH CORD.

Braided, Drab.....lb 25c
Braided, White. common..lb 17½@18c
Cable Laid Italian ....lb, A 18c, B 16c
Common India.....lb 9c@9½c
Cotton Sash Cord, twisted....12@16c
Patent Russia.....lb 12½@13c
Cable Laid Russia.....lb 13½@14c
India Hemp, braided.....lb 14@15c
India Hemp, twisted.....lb 10@12c
Patent India, twisted.....lb 10@12c
Pearl Braided, cotton .....lb 17@18c
Massachusetts, white.....lb 22½c
Massachusetts, drab.....lb 20½c
Eddystone Braided, cotton ....lb 19c
Harmony Cable Laid Italian....lb 18c
Ossawan Mills:
Crown, Solid Braided, white ..lb 18c
Braided, Giant, white.....lb 17c
Peerless:
Cable Laid Italian.....16c
Cable Laid Russian.....14c
Cable Laid India..... 12c
Braided India.....18c
Phœnix, white.....19c
Samson:
Braided, Drab Cotton .....lb 32½c
Braided Italian Hemp.....lb 32½c
Braided, Linen.....lb 49c
Braided, White Cotton, Spot.lb.28½c
Silver Lake:
A quality, Drab, 40c.....15%
A quality, White, 35c.....15%
B quality, Drab, 35c.....15%
B quality, White, 30c.....15%
Italian Hemp, 40c.....15%
Linen, 57½c.....15%

SASH LOCKS.

Ives, Patent.....60@60&5%
Payson's Perfect.....Net
Payson's Signal (new list).....Net

SAWS.

Atkins' Circular.....Net
Atkins' Band.....Net
Atkins' Cross Cuts.....Net
Atkins' Mulay, Mill and Drag.....40%
Atkins' One-Man Saw.....Net
Atkins' Circular Solid and Inserted Tooth.....50%
Atkins' Bands over 2 in. wide.....60%
Atkins' Bands under 2 in. wide.57&10%
Atkins' Mill, Mulay and Drag.....50%
Atkins' Cross Cuts.....40%
Atkins' One Man.....40&10%
Atkins' Narrow Cross Cuts.....40%
Atkins' Wood Saws and Blades.40&10%
Atkins' Hand Saws.....40%
Atkins' Compass Saws.....50%
Atkins' Butcher Saws.....40&10%
Disston Circular Solid and Inserted Tooth.....50%
Disston Cross Cuts.....Net
Disston Narrow Cross Cuts.....Net
Disston, Mulay, Mill and Drag....40%
Disston Framed Woodsaws.....35%
Disston Woodsaw Blades.....40%
Disston Woodsaw Rods.....25%
Disston Handsaws, Nos. 12, 99, 9, 16, D100, D8, 120, 76, 77, 8.....25%
Disston Hand Saws, Nos. 7, 3.....30%
Disston Compass, Keyhole, etc....25%
Disston Butcher Saws and Blades.35%

SAW FILERS

Stearns'.....25%
Silent saw.....35%
Sargent's.....60&30%
Reading.....37½%

SCALES.

Family, Turnbull's .....30@30&10%
Hatch, Counter:
Platform, 4 lb. by ⅛ oz..doz...$5.75
2 Platforms, 8 lb. by ⅛ oz. doz $16.00
Union Platform, Plain.....$1.75@$2.00
Union Platform, Striped..$1.85@$2.15
Chatillon's Eureka.....25%
Chattilon's Favorite.....40%
Chatillon's Grocers' Trip Scales...50%
Pelouze Scales, Household Counter, Confect. Postal, Ice, &c.....50%
"The Standard" Portables.....45%
"The Standard" R. R. and Wagon 50%

SCREWS.

BENCH AND HAND.

Bench, Iron.....per doz. 60%
Bench, Wood, Beech..per doz. $3 50
Hand, Wood.....30%

COACH, LAG AND HAND RAIL.

Coach and Lag, Gimlet Point, list Sept. 20, 1899.....75@75&10%
Hand Rail, list Jan. 1, 1871.....75%

JACK SCREWS.

ack Screws.....70%

WOOD.

MANUFACTURERS' CIRCULAR PRICES

New List.
Flat Head Iron.....87½%
Rou d and Oval Head Iron.....85%
Flat Head Brass.....85%
Round and Oval Head Brass.....82½%
Flat Head Japanned.....82½%

SCYTHES.

Blood's.....$ 8 50
Clover..... 8 50
Grain Clipper, Blood's..... 10 50
Hollow Clip..... 8 50
Silver Clip 8 50
Honest Dutchman..... 8 50

SHEARS.

	7	8	9 in.
Best.....	$16.00	$18.00	$20.00 gro.
Good.....	13.00	15.00	17.00 gro.
Cheap....	5.00	6.00	7.00 gro.

Straight Trimmers, &c.:
Best Quality Jap.....70@70&10%
" Nickel.....60@60&10%
Fair qual. Jap.....80@80&5%
" Nickel .....75@75&10%
Tailors' Shears.....40@40&10%
Acme Cast Shears.....40@40&5%
Heinisch's Tailors' Shears. 40@40&5%
Wilkinson's Hedge 50%
Wilkinson's Sheep.....1900 list, 50%

SHINGLES, METALLIC.

Eastlake I. C. Tin Shingles, painted, pr sq.....$4 25
Eastlake I. C. Tin Shingles, galvanized, pr square..... ..$6 00
Octagon Fluted I. C. Tin Shingles, painted, per square..$5 50
Octagon Fluted I. C. Tin Shingles, galvanized. pr sq....$7 25

SIFTERS.

Eclipse.....per gr $15 00
Hunter's Genuine.....per gr $16 00

SKATE SHARPENERS.

Skate Sharp., Eureka, per doz $2 00 net
Washer Cutters, Woodard's, per doz.....$2 50 net

SLATE.

GENUINE NO. 1 BANGOR.

24x14, 24x12, 12x 8	$3 50 pr sq.	20x10, 18x10, 18x 9, 16x 8	$4 50 pr sq
22x11, 20x12, 18x12, 16x12, 14x10, 14x 8, 14x 7	$3 75 per sq.	16x10, 16x 9	$4 25 pr sq
		12x 7, 12x 6	$3 25 pr sq

GENUINE NO. 1 BANGOR RIBBON.

24x14, 24x12	$3 00 pr sq.	20x10, 18x10, 18x 9, 16x10, 16x 8	$3 50 pr sq
22x11, 20x12, 14x 8, 14x 7	$3 25 pr sq.		

SNAPS.

German.....40@40&10%
Covert Mfg. Co.:
Derby.....35&2%
High Grade .....45@2%
Jockey.....40&2%
Trojan .....45&2%
Yankee.....35&2%
Yankee, Roller.....30&2%
Covert's Saddlery Works:
Banner.....60&10%
Crown.....60&10%
Model .....60&10%
Triumph .....60&10%
W. & E. T. Fitch Co.:
Bristol .....40&10%
Empire.....50&5%
German.....40%
National .....50&5%
Perfect.....45%
Clipper.....50&5%
Champion.....40%
Security.....40%
Victor.....60&5%
Oneida Community:
Solid Steel.....65@65&10%
Solid Swivel.....65&10@65&10&10%
Sargent's Patent Guarded...66⅔&10%

SOLDERING FURNACES.

No. 3 Gems tin reservoir.....$6 00
No. 6 Gems copper reservoir..... 8 50
Gem Gas Pots..... 3 25
Clayton & Lambert No. 1 Fire-Pot 6 00
Clayton & Lambert's Special Fire-Pot..... 4 50

SPRINGS, DOOR.

Star (Coil) list Oct. '95.....net
Torrey's Rod 39 in. Per doz. .....$1 20@$1 25
Warner's No. 1..... .....net 75

SQUARES.

Steel and Iron..... ..... 70&10%
Nickel plated.....65, 10&5%
Try squares and bevels.....65, 10&5%
Disston's.....45%
Bemis and Call, pocket.....30%
Winterbottom's try & mitre.....30%
Starrett's.....25%

STAPLES.

Barbed Blind .....per lb., 10c
Poultry Netting.....per lb., 5c

STAPLE PULLERS.

Russell Staple Pullers..per doz., $9 00

STOVE PUTTY.

1, 10 & 25 pound Cans.....per lb., 5c
500 pound Kegs.....per lb., 4½c

STROPS.

RAZOR.

Emerson.....60 to 60&5%
Imitation.....20, 10&5%
Torrey's.....20%
Tower & Lamont.....per doz $4 00
04 Combination.....per doz 3 75

TACKS.

List Jan. 15, '99.
Carpet Tacks, American.....90&40%
American Cut Tacks.....90&30%
Swedes Iron Tacks.....90&40%
Swedes Upholsterers' Tacks.....90&40&10%
Gimp Tacks .....90&40&10%
Lace Tacks .....90&40&10%
Trimmers' Tacks.....90&30%
Looking Glass Tacks .....70&10%
Bill Posters' and Railroad Tack90&40%
Hungarian Nails.....80&15%
Common and Patent Brads....80&10%
Trunk and Clout Nails.....80&10%

TRAPS.

GAME.

Oneida Pattern .....75&5@75&10&5%
Newhouse.....45@50%
Hawley & Norton.....65@5&70%
Victor (Oneida Pattern) .. 75@75&10%
Star (Blake Pattern) ....65&10@70&5%

MOUSE AND RAT.

Mouse, Wood, Choker, doz. holes .....8½@9c
Mouse, Round or Square Wire, doz.....$0.85@1.00
American Pattern French Rat and Mouse Traps—
No. 1, Detroit Marty Pattern, per doz. $4.50; in ½ gro. lots, per doz.....$4.00
No. 2, Detroit Marty Pattern, per doz, $3.25; in ½ gro. lots, per doz.....$3.00
Detroit Marty Pattern Mouse, per doz. $2.00; in ½ gro. lots, per doz.....$1.75
Diamond Joe Mouse Traps, per doz.....60c
Diamond Joe Rat Traps, per doz.$1.00
Marty French Rat and Mouse Traps. (Genuine:)

TWINE.

Flax Twine—

	BC	B
No. 9, ¼ and ½ lb. Balls...	20c	24c
No. 12, ¼ and ½ lb. Balls ...	17c	20c
No. 18, ¼ and ½ lb. Balls ...	14c	17c
No. 24, ¼ and ½ lb. Balls....	14c	17c
No. 36, ¼ and ½ lb. Balls...	13c	16c

Chalk Line, Cotton, ½ lb. Balls18@20c
Cotton Wrap., 5 lb. Balls to lb 16 to 20c
2-Ply Hemp, 1½ lb. Balls (Spring Twine) .....12@15c
3-Ply Hemp, 1 lb. Balls.....12@15c
3-Ply Hemp, 1½ lb. Balls .....
2, 3, 4 and 5-Ply Jute, ½ lb. Balls....8c
Mason Line Linen, ½ lb. Balls 45c
No. 264 Mattress, ¼ and ½ lb. Balls 34c
Wool.....5½@6c

VISES.

Solid boxes.....40%
Parker's.....20%
Howard's.....35%
Bonney's.....35%
Trenton.....40%
Stearns'.....50%
Cheney's.....12½%
Massey's.....25%
Parallel.....30&5%
Holland's.....35%
Stevens'.....25%
Miller's Falls.....40%
Prentiss.....20%
No. 1, Rat each $1.12½; per doz. $12.00
No. 3, Rat, per doz. $6.00; case of 50.....$5.25 doz.
No. 3½, Rat, per doz $4.75; case of 72.....$4.25 doz.
No. 4, Mouse, per doz. $3.50; case of 72.....$2.75 doz.
No. 5, Mouse, per doz. $2.75, case of 72.....$2.25 doz.
Schuyler's Rat Killer, No. 1, per gro. $30.00; No. 2, per gro. $30.00; Mouse, No. 3, $18.00.....50%

FLY.

Balloon, Globe or Acme..... doz. $1.15@1.25; gro. ... $10.50@11.00
Harper, Champion or Paragon.... doz. $1.25@1.40; gro....$12.00@12.30

TROWELS.

Disston Brick and Pointing 30%
Disston Plastering.....25%
Disston "Standard Brand" and Garden Trowels.....40%
Never-Break Steel Garden Trowels.....gro. $7.00
Peace's Plastering.....30%
Rose Brick and Plastering.....25&5%
Woodrough & McFarlin Pl'st'ring.

WASHERS.

LEATHER, AXLE—

Solid.....80&10&10@85%
Patent.....85&10@85&20%
Coil: ⅜ ½ 1½ 1¼ inch.
11c 12c 13c 15c per 100

IRON OR STEEL.

Size bolt 5-16 ⅜ ½ ⅝ ¾
Washers $5.20 $4 30 $3.00 $2.80 $2.60
In lots less than one keg add ¼c per lb; 5-lb boxes add ⅛c to list.

CAST WASHERS.

Over ½ inch, barrel lots per lb .....1½@1¾c

WELL WHEELS.

8-in., $2.20.....10-in., $2.60
12-in., $3.25.....14-in., $3.25

WIRE AND WIRE GOODS.

Brt. and Ann., 6 to 9, 70&10@70&10&5%
Brt. and Ann., 10 to 18, 72½@72½&10%
Brt. and Ann., 19 to 26, 75&7½@75&10%
Brt. and Ann., 27 to 36..... .....75&10&5@75&10&7½%
Cop'd and Galv., 6 to 9, ...70@70&10%
Cop'd and Galv., 10 to 18..... ..... 70&10@70&10&5%
Cop'd and Galv., 19 to 26..... .....75&7½@75&10%
Cop'd and Galv., 27 to 36..... .....75&10@75&10&5%
Tinned, 6 to 14.....75@75&5%
Tinned, 15 to 18 ....70&5@70&10%
Tinned, 19 to 26..... .....70@70&5%
Tinned, 27 to 36.....65&10@70%
Annealed Wire on Spools..... .....70&5@70&10%
Brass and Copper Wire on Spools.....60&5@60&10%
Brass, list Feb. 26, '96.....25%
Copper, list Feb. 26, '96.....15%
Cast Steel Wire.....50%
Stubs' Steel Wire, $6.00 to £.....40%

BRIGHT WIRE GOODS.

List April 1, 1901.....85@85&10%

WIRE CLOTH AND NETTING.

Galvanized Wire Netting....85@85&5
Ptd Screen Cloth per 100 ft $1.00@$1
Light Hardware Grade:
2-8 Mesh, Plain (8c list) sq ft....1¾c
2-8 Mesh, Galv. (8c list) sq ft....2¾c

WRENCHES.

Agricultural.....70&10%
Case lots..... .....75&10%
Acme..... .....60&5%
Baxter's S..... .....60&10%
Bull Dog.....70%
Coe's Genuine.....40&10&5%
Coe's "Mechanic's"..40&10&10&5&5%
Alligator.....60&10&10%
Bemis & Call's:
Adjustable S.....25&5%
Adjustable S Pipe.....40%
Briggs' Pattern.....30&10%
Combination Black.....40&5%
Combination Bright.....40%
Cylinder or Gas Pipe.....55%
Extra Heavy.....45%
Merrick's Pattern.....50%
No. 3 Pipe, Bright.....55%
Bindley Automatic.....30%
Boardman's.....33⅓%
Donohue's Engineer.....40&10%
Eagle.....50&10%
Gem Pocket.....30%
Hercules.....70%
Knife Handle, Machinists' (W & B.): 0&10%
Case lots.....50&5%%
Less than case lots.....5%
Improved Pipe (W. & B.).....50&10
Solid Handles, P. S. & W.....&10 &
Stevenson..... 5%

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS.—H. W. T. JENNER, Patent attorney and mechanical expert, 608 F street, Washington, D. C. Established 1883. I make an examination free of charge and report if a patent can be had and exactly how much it will cost. Send for circular. Member of Patent Law Association.

PATENTS HUBERT E. PECK, 623 F St., N. W. Washington, D. C. Consulting Expert in Patent Causes, U.S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale—Hardware stock and implements, invoice $6,000.00, located in one of the best farming communities in Illinois. This is a clean, up-to-date stock. Address Box 446, Dwight, Ill. 8

For Sale—One 36-in. Star Peerless Bar Folder; One 36-in. Star Empire Squaring Shears. Both brand new, 50% off list, $2.50 allowed for freight. For particulars address C. D. Cowgill, 304 So. 6th St., Terre Haute, Ind. 8

For Sale or Trade—A good brick two story building in a lively Ill. town that will rent at once for $25 per month. I will take good western land or a stock of hardware or Buggies and farm wagons. Address, Bargain, care AMERICAN ARTISAN, 69 Dearborn St., Chicago. Ill. 8

Wanted—A good location for hardware store, or buy a small stock in a good lively town in Minnesota or Dakotas. Address, Lock Box 70, Stewartville, Minn. 8

Wanted—To exchange Michigan farm for country hardware. Address, Box 38, Fayette, Ohio. 8

FOR SALE—A good clean stock of Hardware, Stoves, Tinware and Building for Sale or Rent, in a good location in the City of Milwaukee. For full particulars call on or address Wm. Frankfurth Hardware Co., Milwaukee, Wis. 8

For Sale—Our hardware stock. Worth $4,000. Best location in the city and one of the best cities in the state. Crops in surrounding territory never better than they are this year. Nothing the matter with us or our business—we simply want to quit. Cash or good paper. Rodney Sacket & Co., Berlin, Green Lake County, Wis. 6

Wanted—A partner with $500 in a general store. One who is a tinner preferred. A good chance for one with a small capital. Address "X. Y. Z.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

For Sale—Clean stock of hardware, stoves; tin shop, buggies and implements in connection; located in one of the best farming counties in Illinois. Stock will invoice about $3,500. Cheap rent, best location in town; one other hardware store in town. Population about 1,200. Cheese factories, good schools, four churches, etc. Here is a good chance or you, who mean business. Reason for selling—going onto my farm. Address "Farmer," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

For Sale—Clean stock of hardware and harness in north-western Iowa; also, best corner building n town, large territory. Splendid opening to run mplement in connection. Address "Implements," are of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

For Sale—Our hardware business. Hardware, stoves and tinware; tinshop in connection. Good own, good business. Stock about $4,000. Can be reduced. Will tell you why we want to sell on application. Address P. A. Williams & Co., Strawberry Point, Ia. 6

Wanted—A small stock of hardware. Invoice about $2,000. In a new, growing town. Address, with particulars, Fred G. Schadegg, Prescott, Wis. 6

Wanted—A good location in a small growing town for a good shop. Would like shop in connection with a good hardware store. Can any of he readers of THE ARTISAN tell me of such a place. If so, kindly address Box 537, Bedford, O. 5

For Sale—Half interest in hardware stock of about $1,500, in southern Minn. Good opening. It will pay you to investigate. Reasons for selling. Address "O K," care AMERICAN ARTISAN, Chicago, Ill. 3

TINNERS' TOOLS.

For Sale—Set of tinners' tools, square shears included, cheap for cash. List and price on application. Box 332, Edgerton, Wis. 5

For Sale—One Shepard's back-geared, screw cutting, foot-power lathe, 13 in. x 60 in., with gap and milling attachment, 3 and 4 jaw chucks and lots of tools, used very little; not a scratch on it; cost $265, will sell for $200. Write for better description to C. A. Bergh, Mondovi, Wis. 5

Set of tinners' tools for sale cheap, in good condition. Send for list. Joe G. Harris, Box 33, Decatur, Adams Co., Ind.

HELP WANTED.

Wanted—At once: Tinner who understands hot air furnace work and general jobbing. State experience and wages expected for steady job, for the right man. E. M. Shoupe, Fremont, O. 8

Wanted—Skandinavian clerk that is thoroughly posted in hardware business, a good stock keeper and not afraid of work. State references, experience had, salary wanted, steady employment to right party. Barnes & Nuss Co., Grand Forks, N. D. 8

Wanted—At once, tinner, slater, plumber, must be first-class workman, sober and industrious. Good wages to right man or state wages wanted. Address G. H. Blattner, Vermillion, O. 8

Wanted—Three high-grade stove salesmen for 1902 to represent first-class stove house in Ill., Ia., and Minn. None but good salesmen need apply. Address "High Grade," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 8

Wanted—At once, a first-class tinner, an all-round hustler; a furnace man. Steady job. Address W. W. Wheeler, Harlan, Iowa. 8

Wanted—At once. A tinner, one who can do any thing that comes in a tin shop; no pumps or wind mills. State wages. Last two men have been with me five years. W. S. Davis, Stewartville, Minn. 8

Wanted—Two first class die makers, familiar with making dies for stamped ware. Also two first class machinists. Address, The Lisk Man'f'g Co., Ltd., Canandaigua, N. Y. 8

Wanted—A good experienced, steady Tinner. To one willing and capable of doing all work on Stoves, Pumps and Bicycle Repairing we can give steady employment. One who speaks German preferred; must have man by Sept. 1st. Casselton Hardware Co., Casselton, N. D. 8

Wanted—Immediately, first-class furnace man for Portland, Ore. Address "Mac," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 8

Wanted—A good sober, all-around tinner, that has had experience in furnace work, hot water and steam heating. A German, married man preferred. State wages. Address Geo. H. Bruns, Lake Mills, Wis. 7

Wanted—Experienced stove mounter. Bonnet-Nance Stove Co., Chicago Heights, Ill. 7

Wanted—A good inside and outside tinner, understanding galvanized iron roofing, guttering and spouting. Western man preferred. M. J. Williams, Baton Rouge, Ia. 7

Wanted—A tinner and clerk. A good man. A steady job, good wages. Must be sober. Would like him to speak German. Thos. Rawlings, Wakefield, Neb. 7

Wanted—Buyer for large, wholesale hardware house. Must have experience in line throughout. Please apply, stating experience, age and salary desired to "Wholesale Hardware," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 7

Wanted—At once: a first-class tinner who understands hot air and steam furnace work, and has a fair knowledge of plumbing. Must not necessarily be a man that can wipe a joint. Must be temperate. Will pay good wages and guarantee steady employment. Address, stating age, experience and salary required, The J. C. Lewis Co., Antigo, Wis. 7

Wanted—Two first-class tinners. J. L. Clark Hdw. Co., Rockford, Ill. 7

Wanted—At once; a first-class clerk who can speak German; must be sober and reliable. Good wages. McDonald Bros., Madison, S. D. 6

Wanted—Tinner who can speak German. Steady work in good Minnesota town for sober man. Address "Town," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

Wanted—An all-around tinner. Steady work for the right man. Herman Soehner, Dayton, O. 6

Wanted—At once; A reliable, sober tinner that understands furnace work and plumbing. Steady work and good wages. Address H. D. A. Grebe, Barrington Ill. 6

Wanted—A1 plumber, tinner and bicycle man. Must be first class workman, sober and industrious. Good wages to right man. Address U. G. Fowler & Co., Huron, S. D. 5

Wanted at Once—A reliable, hustling, sober man, that understands furnace, gas piping, pump, windmill and ordinary roofing and spouting. Please state age, experience, reference and wages expected. Address John Seltzer, Morning Sun, Iowa. 5

Wanted at Once—A first-class tinner who understands hot air and steam furnace work, accustomed to clerk in store. Must be temperate. One who speaks Norwegian preferred. Good wages and steady employment. Address with references, stating age, experience, and salary required. McIntosh Bros., Bottineau, N. D. 5

Wanted—A firstclass pattern marker and carver, who understands stove building thoroughly. Submit references with application. State length of experience you have had and advise salary expected. Steady work. Address Indiana Stove Works, Evansville, Indiana. 5

Wanted—A tinner, one that understands furnace work. Walker Bros., Carrington, N. D. 5

Wanted—A thorough, up-to-date steel range worker. Steady position, good place to right man. Only a good man will be considered. "R. F. G.", care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 5

Wanted—Traveling salesman in Missouri and Kansas for gas machines and hot water heaters—state experience, age, salary expected and references. Address "H. W. H.", care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 5

SITUATIONS WANTED.

Situation Wanted—As clerk, tinner, stove man, window trimmer, a general all-round hardware man, a hustler, recognizing no "dull seasons;" young, sober and single; write anyhow. Chas. Hahn, Butte, Mont. 8

Wanted Situation—I have had 15 years' experience in a hardware store, six years' in the newspaper business; was post master three years of the time. I want a situation in a hardware store; can do some work at the bench. Best of references. Address, Box 280. Dexter, Minn. 8

Wanted—Situation by German-American man of 19 as tinner. Common in and outside work. Can repair bicycles, gasoline stoves, etc. Have had 3 years' experience. No bad habits. Address E. W. Ebert, Farmersburg, Ia. 7

Wanted—Situation as superintendent of stove or gray iron foundry. Understand the business thoroughly in all its details. Address "Kennedy," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 7

Situation Wanted—In general hardware. Had experience in wholesale, retail and had charge of a a general hardware store for five years. Capable of figuring on builders' hardware; also, good salesman in stoves. Not afraid to take position where it requires hard work. Can be trusted anywhere. Address "Capable," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 7

Wanted Situation—By a young man, 19 years old, in shop to learn furnace heating and plumbing. Have had 3 years' experience in store and tin shop. Can do ordinary repairing. Am strictly temperate. State wages willing to give. Address Lock Box 31, Brooklyn, Wis. 7

Wanted—Position with some good paying hardware; by German tinner with 20 years of experience. Could take charge of stock. With view of buying interest, or whole if suited. Give amount of business you do, size of stock and town, class of people, etc. Address Tinner, Sibley, Ia. 7

Wanted—A steady job as tinner, clerk, or both. Twelve years' experience. Good references. Would like a job in the west. Address A. W. G., care of P. O. Box 896, Moscow, Idaho. 6

Wanted—A position as tinner at once. Am German-American, age 23. Have had 4 years of experience at in and outside work. Can do furnace work and also repair bicycles. Can furnish good references. Address P. O. Box 131, Lakefield, Minn 6

Wanted—Situation as salesman for good wholesale or retail hardware firm; have had experience with all kinds of farming implements. Can give best of references. Address "H. R.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

Wanted—Situation as salesman in a hardware store by a young German-American with ten years' experience. Know the tinners' trade and can keep books. No objections to going on the road. Position must be in a western state. Address P. O. Box 114, Northfield, Minn. 6

SPECIAL NOTICES.

HARDWARE BUSINESS FOR SALE.

Doing retail-wholesale business. Daily sales $110 to $160. Will arrange special terms with right party for purchase within next thirty days. Address "**Hardware,**" care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago Ill.

SPECIAL NOTICES.

WANTED.

Position as an assistant cutter; by a tinner with 20 years' experience. Steady and reliable. Best of references. Would prefer position in or near Chicago. Address,

"Cutter,"

care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 7

A YOUNG SUCCESSFUL FACTORY MANAGER,

Familiar with designing and construction of gas stoves and appliances, who has also had entire charge of factory, buying and selling, desires a change of position. Is at present employed as manager of one of the best gas stove firms in the country. Can give best of references, and leave present position on thirty days' notice. Able to design and construct any style of gas stove or range desired. Address "STOVE MANAGER," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

Wanted.

An energetic hardware manufacturers' agent, located at San Francisco, wants to represent one or two good houses on the Pacific coast. Address **"Energetic,"** care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill.

YOUNG MAN

With good connections in British Isles and Continental Europe wishes agencies for a few lines of American manufacture. Prompt attention. References. Address

MONTAGUE,
39 Paradise Street,
Liverpool, Eng.

WANTED.

An experienced foreman in gasoline and oil stoves to take charge of machine shop, press and die room, capable of designing and handling dies and pushing through work at lowest cost and lots of it. Apply by mail, giving age, experience and reference.

The Monarch Stove & Mfg. Co., Mansfield, O.

C. D. Holiday, Memphis, Tenn., writes: "I am lost without your valuable paper."

---

50 Hardware Ads...	50c
50 Bicycle Ads.....	50c
50 Furnace Ads....	50c
50 Implement Ads..	50c
100 Steel Range Ads.	100c

Advertising Pays.

Get a copy of these ads which are the best used by us. They increase our trade and will yours. Catchy headlines ready for the printer. Stamps taken. Address

H. P. Townley, Terre Haute, Ind.

ILLUSTRATION SHOWING

JONES' RATCHET COPING SAW

IN OPERATION.

The Jones Ratchet Frame is constructed with a steel back and Ratchet arrangement (see illustration) which enables the workman to quickly set the blade at any angle by the handle and button at the other end of saw frame (see letter A).

Jones & Dommersnas,

31 & 33 Indiana St., - - - - CHICAGO.

THE MAN WHO SELLS STOVES

should lose no time in becoming acquainted with

DIXON'S GRAPHITE CEMENT

It is the most effective article in existence for the repairing of firebrick in stoves and furnaces. We will send you sample and prices free for the asking.

JOSEPH DIXON CRUCIBLE COMPANY *Jersey City, N. J.*

C&B LINE

Pan-American Route

Between CLEVELAND and BUFFALO.

STEAMERS CITY OF BUFFALO AND CITY OF ERIE.

Both together being without doubt, in all respects, the finest and fastest that are run in the interest of the traveling public in the United States.

TIME CARD—DAILY—APRIL 15th to DEC. 1st.

Leave Cleveland 8 p. m. Arrive Buffalo 6:30 a. m. | Leave Buffalo 8 p. m. Arrive Cleveland 6:30 a. m.

ADDITIONAL SERVICE DURING JULY AND AUGUST DAILY EXCEPT SUNDAY.

Leave Cleveland.....8:00 a. m. | Leave Buffalo.....8:00 a. m.
Arrive Buffalo.....6:00 p. m. | Arrive Cleveland.....6:00 p. m.

Leave Cleveland Tuesdays, Thursdays and Saturdays 5 p. m. Arrive Buffalo 5:30 a. m.
Leave Buffalo Mondays, Wednesdays and Fridays 5 p. m. Arrive Cleveland 5:30 a. m.

All Central Standard Time. Orchestra Accompanies Each Steamer.

Connections made at Buffalo with trains for all Eastern and Canadian points, at Cleveland for Detroit and all points West and Southwest.

Ask ticket agents for tickets via C. & B. Line. Send four cents for illustrated pamphlet. SPECIAL LOW RATES CLEVELAND TO BUFFALO AND NIAGARA FALLS EVERY SATURDAY NIGHT, ALSO BUFFALO TO CLEVELAND.

W. F. HERMAN, General Passenger Agent, Cleveland, O.

Faith in Advertising.

WITHOUT newspaper announcements no man who has commodities to sell or services to render can achieve as high a degree of success in business as he could with judicious advertising; and the success which newspaper publicity brings is worth many times its cost. A leading merchant of Syracuse (New York) says: "Most of the owners of large mercantile establishments who use newspaper space had their start under the same conditions that nine-tenths of the small merchants work under. They have had faith in advertising and the courage to buy space."

CUT THIS OUT.

To the Publishers **THE AMERICAN ARTISAN,**
69 Dearborn St., Chicago.

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars, for one year's subscription, or 50 cents in case we decide to discontinue.

NAME.....

ADDRESS.....

TOWN.....

STATE.....

The Quicklight Lamp

is the only lamp fit for house use. No noise, no flicking out, but is quiet, and a steady light. Made in DOUBLE, SINGLE and STAND LAMPS. Write for circular and price list, and terms to agents.

THE GREAT OBJECTION to all of the different makes of gasoline lamps **heretofore offered** to the public has been that they require **generating**, which means tiresome delay in lighting, difficulty in keeping in working order and heavy expense for repairs; the different parts of the lamps being complicated. There is also the expense of **alcohol**, which is an absolute necessity with all **generating lamps**. The "Q" requires no generating, no alcohol, no waiting, it is operated the same as ordinary city gas, **lights instantly**, can be **turned up or down**, as desired, and is absolutely safe.

You are doubtless familiar with generating lamps and the many disagreeable features. No generating lamp will sell at any price where our **Quicklight Lamp** is known, and as a gift the generating lamp will soon cost more money for alcohol, repairs, etc., than our lamp at full retail price.

We are not trying to compete with cheap Lamps. You can buy them at any price. We prefer to offer you the best lamp ever made.

We guarantee entire satisfaction. Patented July 24, 1900.

Quicklight Mfg. Co.

204 State St., Chicago.

Latest Improved

GAP SQUARING SHEARS

[Treadle or lever combined] or Belt Power for light or heavy work, all sizes for squaring, trimming and slitting, also cutting triangular or square holes, 8 different styles.

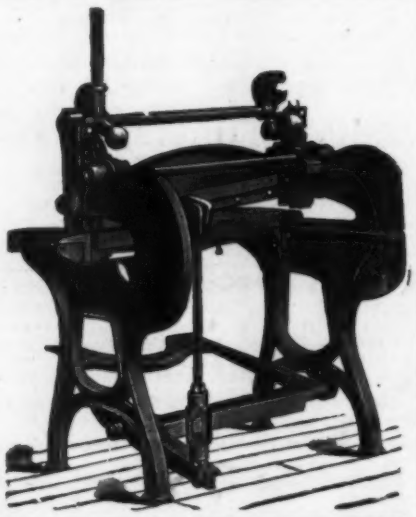
Improved Combined

PUNCH AND SHEARS

12 sizes, 10 to 18 in. blades (also arranged for cutting triangular or square holes]. Improved Rolls, Crimpers, punches, etc.

BERTSCH & CO.,

Cambridge City, Ind.



Patented.

Standing Seam and Slate Roof

(Patented)

Snow Shoe Irons

No snow rails need be used unless desired. The lugs clinch through the seam easily but securely. Send for catalogue.

BERGER BROS. CO.

MFRS. OF TINNERS' HARDWARE AND ROOFERS' SUPPLIES

PHILADELPHIA. U. S. A.

The Johnson Lighting Co.,
Atlantic, Ia., write:

"Please withdraw our ad. 'Wanted, a First-class Galvanized Iron Worker.' One insertion did the business."

Established 1874.

The largest and most reliable **Foundry Supply House** in the world.

THE

S. Obermayer Co.,

CINCINNATI, OHIO.
CHICAGO, ILL.
manufacturers

"Everything You Need in Your Foundry."

Importers and refiners

PLUMBAGO GRAPHITE.

Catalog Sent on Application.

Bee Sharp

...and buy the...

Sheet Metal Workers Guide.

A Practical Handbook for Tinsmiths, Coppersmiths and Zinc Workers. A collection of rules and diagrams for describing the most useful patterns ordinarily required, preceded by chapters on Sheet Metal Work, Soldering, Geometry as applied to Sheet Metal Working. By W. J. E. CRANE. Price, postpaid, 60 cents.

DANIEL STERN,
69 Dearborn St., Chicago.

L. S. BONBRAKE,
PERU, IND., Writes:

"Your journal is certainly a valuable trade medium. I have used it for advertising goods, for securing workmen and for the purpose of getting a position for myself, and in every instance the result has been surprising.

"Through the late notice given me by it, asking for work, I have received seventeen answers from Ohio, Indiana, Illinois, Iowa, Wisconsin, Nebraska, Dakota, and any one of them presumably would be a good place to go, as they are highly rated in Dun's Report. Please take out my notice. Thanks to THE AMERICAN ARTISAN, I had a place from the first notice."

Our No. 93226.

FOR ALL FIRST CLASS RAZORS SEE THE **GREEN BOOK** OF HARDWARE SPECIALTIES AND YOU WILL GET THE BEST INFORMATION.

SMITH & HEMENWAY CO. UTICA DROP FORGE & TOOL CO. THOMSON BROS. & CO.

Ask your dealer for these goods. 296 Broadway, NEW YORK CITY.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS Sold by All Hardware Dealers

NEW BRITAIN, CONN.

THE "DISSTON SAW" WILL DO MORE WORK WITH LESS EXERTION AND HOLD ITS CUTTING EDGE LONGER THAN ANY OTHER BRAND OF SAW.

Fully Warranted as to Material and Manufacture.

For Additional Information Send a Postal For Our Pamphlet "Practical Hints To Mechanics."

Henry Disston & Sons, Inc.,
Keystone Saw Tool Steel & File Works.
Philadelphia, Penna.

"ENTERPRISE"

Fruit, Wine and Jelly PRESS

Extracts the Juice and Ejects the Skins and Seeds in one operation

No. 34, $3.00

Meat Juice Extractor

No. 21, $2.50

Ice Shredders

		per doz.
No. 33,	Tinned	$6.00
No. 34,	Nickeled	15.00

Descriptive Catalogue mailed Free — Order through your Jobber

The Enterprise Manufacturing Co. of Pa., Philadelphia, Pa., U. S. A.

FOX Brand Razors

Are Known as the Best.

We make all widths and Styles. The Fox Trade Mark is Registered. Send for Catalogue.

FOX CUTLERY CO.,

628 Main St., Dubuque, Ia. 48 Center St., New York, N. Y. Canandaigua, N. Y.

R. Dykstra,
Battle Creek, Mich.,
writes:

"AS LONG AS I RUN A TIN-SHOP I MUST HAVE THE AMERICAN ARTISAN."

TIME

Time Flies and the hardware dealer who is not handling the **Buckeye Brand of White Lead Ground in Oil** is losing money every day he puts off writing us.

Buckeye Paint & Varnish Co., Toledo, O.

Champion Stove Clay

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb., and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

BRIDGEPORT CRUCIBLE CO.
BRIDGEPORT, CONN.

Why not remodel your Oaks and Oval air-tights so as to use cast-iron where you now use sheet steel? More attractive!
Planished and Sheet Steel will be scarce.
The Gobeille Pattern Co., Cleveland, O.

Repairs For all Stoves
Great Western Stove Repair Co.
MINNEAPOLIS, MINN.

THE GEO. W. COPE STOVE PATTERN WORKS,
Randolph and Atwater Sts.
DETROIT, MICH.

Stove, Range and Furnace REPAIRS
OF ALL KINDS.
American Stove Repair Works,
186-188 West Seventh Street, ST. PAUL, MINN.

Experience. Correctness.
Acme Pattern Works
STOVE and HEATER Patterns
AKRON, OHIO.
Promptness. Satisfaction.

REPAIRS FOR ALL STOVES AND RANGES.
A. G. Brauer, 316-318 North Third St., ST. LOUIS, MO.

Indianapolis Artistic Pattern Works,
Cor. Fenneman and Minnesota Sts.
INDIANAPOLIS, IND.
Perfect Work. Right Prices.
Special Stove and Furnace Patterns.

To Stove Dealers
NOTICE.

Do you know that the new A-B dealers' stove polish is made dry and you can thin it as you wish. It is the cheapest, brightest and easiest polish to use—no dust—no rust—waterproof. Keeps in any climate. Put up in 5 lb. boxes—Patented. No tin cans to pay for. Mixes quicker than paste; no drying up, good always. Used by a great many stove manufacturers who are sending duplicate orders. Send for price list, it will save you money.

AYLING BROS.,
Sole Manufacturers and Patentees of A-B Stove Polish.
Office and Works, 14 Haddon Ave.,
Address Department A. CHICAGO, ILL.

R. W. BROKOPP,
COLUMBUS, WIS.,
WRITES:
"Please discontinue my advertisement in the column of Situations Wanted. I have accepted a job at Monroe, Wis., where I wish you to send my paper hereafter. I shall never be without The American Artisan again! Wishing you further success, I remain."

REPAIRS FOR ALL STOVES

Pipe Dampers, Mica, Stove Rods, Paste, Stove Putty, Stove Knobs, Etc.

Wm. T. Dust Co.,
231 Brush St., DETROIT.

M. Brucker,
Manufacturer and Jobber of
Stove and Range Repairs.
FOUNDRY, OFFICE AND WAREROOMS
325 to 331 North Lincoln St.,
CHICAGO.

J. L. Morris Stove Repair Co.

Wholesale and Retail Dealers in

Stove and Range Repairs, Mica, Etc.

OFFICE AND WAREROOMS
29 and 31 Desplaines Street, Chicago.

Sole Western Agents for BURDETT, SMITH & CO., and other Manufacturers' Original Repairs.

Black Silk Stove Polish
is BLACKER
than Jumbo ever was

None so fine and none so good as the "Black Silk."

Manufactured by **LEWIS D. WYNN, Sterling, Ill.**

Jobbers and Dealers Write for Prices.

Sleeve or Flouncing Sad Iron.

The Blunt Nose is so shaped as to insure perfection of work and perfect freedom from destruction of garments from snags, etc., as so often is the case with sharp pointed irons.

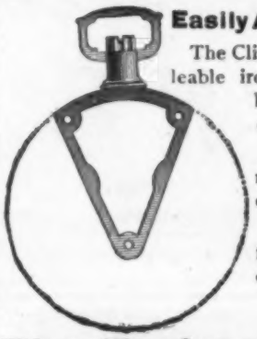
These irons should be in every household. They are an absolute necessity. These Irons are made in Two Sizes, 3 and 4 lbs. each, the bodies being plated with Heat-Proof Aluminum Enamel; face, sides, nose, and heel highly polished. A ready seller.

Blacklock Foundry,
South Pittsburg, Tenn.

ORDER YOUR
Repairs for Stoves, Ranges and Furnaces
FROM
City Stove Repair Co.
CLEVELAND, OHIO.

We guarantee prompt and careful attention. Send for Order Slips.

The Brohard Damper Clip,



Easily Adjusted

The Clip being malleable iron, will not break in riveting.

Cost no more than all cast.

Sample free to introduce.

Write us.

The Brohard Co.
Phila., Pa.

H. Koch & Son, New Baden, Ill., Write:

"Please discontinue our advertisement, for we have more inquiries than we can answer; besides, we are very thankful, having now a man to fill the position O. K. We will always remember

The American Artisan

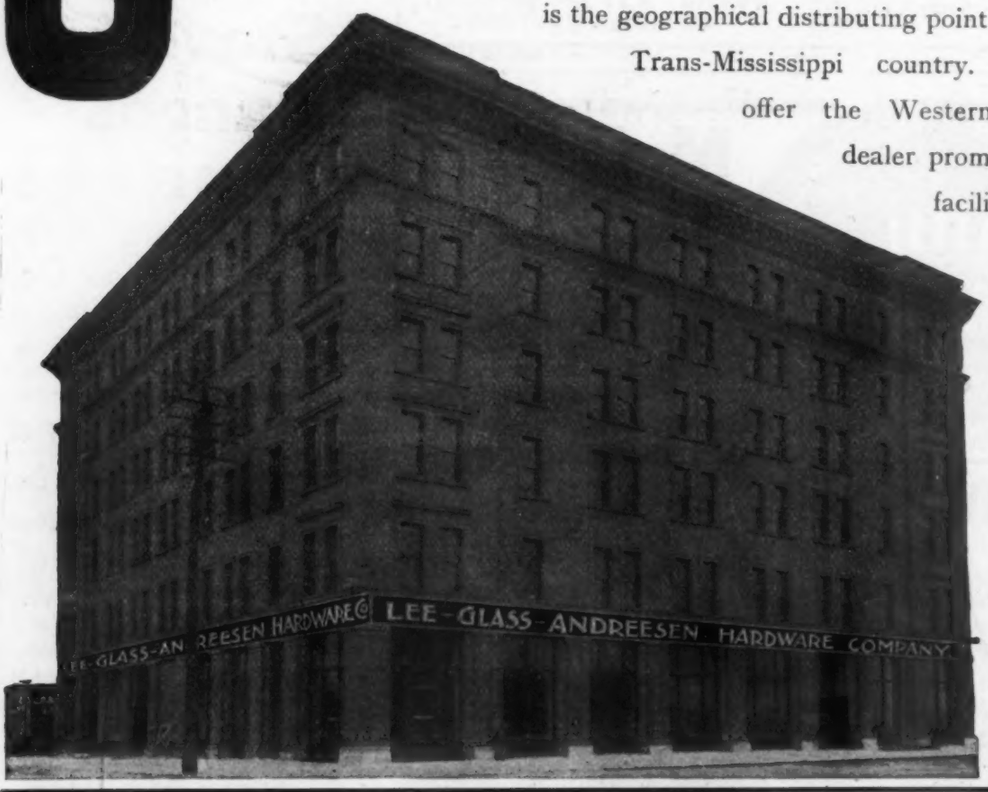
and would not be without same."

OMAHA

is the geographical distributing point of the great Trans-Mississippi country. We can offer the Western hardware dealer prompt shipping facilities that are absolutely beyond the reach of our competitors.

Our prices are right.

Our goods are made to meet Western requirements.



Peters Cartridges

Peters Cartridges

Peters Cartridges

LOADED WITH

King's Semi-Smokeless Powder.

PETERS .22 CALIBRE RIM-FIRE CARTRIDGES
won the National Sportsman's Exposition Tournaments, New York, in 1898, 1899, 1900 and 1901. The New England Sportsman's Tournaments and all the recent indoor rifle tournaments.

PETERS REVOLVER CARTRIDGES
made the highest scores at the long and the short range in the **International Revolver Match, 1900.** At Sea Girt Meeting, 1900, they won the Re-entry Revolver Match and the Revolver Team Match.

PETERS .45 CALIBRE GOVERNMENT CARTRIDGE
won these important matches at the Sea Girt Meeting, Aug. and Sept., 1900: Interstate Military Match; Regimental Team Match; Alicomers Military Match; New Jersey Rifle Association Trophy Match; Winchester Match.

KING'S SEMI-SMOKELESS POWDER

Won the Wimbledon Cup Match, Sept. 1900, 30 Shots at 1000 yards. This powder is the **Sportsman's All-round Powder,** Superior for long or short range shooting in Rifle, Revolver, Pistol and Gun.

The Peters Cartridge Co.,

Government Square, Cincinnati, Ohio.

EASTERN BRANCH: { **T. H. KELLER, Manager, 80 Chambers Street, NEW YORK.**

Peters Cartridges

Peters Cartridges

Lackawanna Railroad

The Scenic Line TO New York City

Palatial Solid Vestibuled Trains
Superb Dining Cars
(Meals a la Carte)
Observation Cars **Latest Pullmans**
Elegant Day Coaches

3 THROUGH TRAINS DAILY from CHICAGO 3

Leaving Chicago	Arriving New York
10.35 a. m.	3.35 p. m. next day.
2.30 p. m.	7.30 p. m. next day.
10.30 p. m.	7.10 a. m. 2d day.

Rates $18.00 First Class, $16.00 Second Class

CITY TICKET OFFICE: 103 Adams Street
GEO. A. CULLEN, Gen'l West'n Pass. Agt.
CHICAGO

O. C. Jamison, Homer, Ill., writes: "I FIND MY ADS. IN YOUR ESTIMABLE JOURNAL HAVE BROUGHT GOOD RETURNS."

Brilliant Enameled Steel Ware

This ware is now manufactured by our factory at Bellaire in the Brown Color only, same having been discontinued in all colors by our Portland, Conn. factory. Particular effort is being made to turn out a highly satisfactory and pleasing article, and all dealers are requested to order a sample lot to be convinced of the merit of this ware.

White and White Enameled Steel Ware

This ware will also be made by our Bellaire Factory only hereafter having been discontinued by the Portland Factory. A large line of hospital goods made in this ware Recommended where sanitary qualities are essential.

National Enameling & Stamping Co.

BRANCH OFFICES New York Baltimore Chicago St. Louis Milwaukee ADDRESS OFFICE NEAREST YOUR LOCATION

Trade-Mark: $ROGERS©

It's the **initial "Trade Marks"** which distinguish our silverware from other Rogers goods, as we use our initials in monogram as our trade marks.

Trade-Mark: $ROGERS BROS.

The Real Rogers

Not in The Trust.

Trade-Mark: $ROGERS BROS.

Silverware bearing these trade marks are guaranteed to strip as much silver as any Rogers brand on the market. New patterns of Superior Finish and Beautiful Designs.

The Simeon L. & George H. Rogers Co.

Factories: Hartford, Conn.; Wallingford, Conn. P. O. Box 1205, HARTFORD, CONN.

Trade-Mark: $ROGERS©

Dietz No. 3 Street Lamp

Has a shining record of 20 years.

It is offered as an effectual antidote for "outer darkness," and is thoroughly well made on scientific principles.

It will give more light than most gas-burning lamps, do it cheaper, and do it with kerosene (coal oil).

It can be lit and regulated from the outside; can continue in business despite the wind; can and will give you entire satisfaction by reason of its absolute reliability.

A few of these lamps around the grounds of a summer resort add materially to its attractiveness.

One lamp kept burning all night in the yard, is a better protection against thieves than a watch dog.

We now fit this lamp with a new style fount which holds oil sufficient to burn 24 hours.

It takes a No. 3 Globe and 1½-in. wick.

We also make this lamp with a bail to hang, and without the socket, and call it: "Dietz No. 3 Globe Tubular Hanging Lamp."

We have a special catalogue for this lamp; also, one showing our very full and complete line of out-door lamps and lanterns, and are glad to send them (free) to those interested.

FOR SALE BY

ALL LIVE JOBBERS.

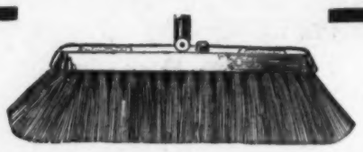
If you handle Lanterns send to us for a catalogue and to your jobber for prices.

R. E. DIETZ COMPANY,

NEW YORK CITY.

ESTABLISHED 1840.

NO MORE DUST.



NO MORE DISEASE.

"THE WORLD'S ONLY" SANITARY DUSTLESS FLOOR BRUSH.

We're passing the era of the straw broom—modern conditions demand modern appliances—**The World's Only Sanitary Dustless Floor Brush** is the brush that sweeps without raising dust. It kills germs and insects where it sweeps, and sweeps better and cleaner than any other broom. Dealers wanted in every town to use it and to sell it.

Write to

MILWAUKEE DUSTLESS BRUSH CO., 122 Sycamore St., Milwaukee, Wis.

The Southern Railway

and

The Mobile and Ohio Railroad

through its Land and Industrial Department invite prospectors, investors, manufacturers and homeseekers to investigate propositions in all lines.

Come and see what splendid opportunities the South affords. Reading matter, maps and detailed information sent free upon application to

M. V. RICHARDS, Land and Industrial Agent, Washington, D. C.
W. L. HENDERSON, Agent, Land and Industrial Dept., St. Louis, Mo.
J. F. OLSEN, Agent, Land and Industrial Dept. 225 Dearborn St., Chicago.

Sperry's Steam Kettles.

Made from very thick metal, without Stay Bolts, Joint packed in such a manner as to never need repacking. A little higher-priced than some, but they are safe and tight.

D. R. SPERRY & CO.,
HOLLOW-WARE FOUNDERS,
.....BATAVIA, ILL.

Cheapest
In the World.
Sizes ⅜ and ½ inch.
J. M. LITCHFIELD,
284 PEARL ST., NEW YORK.

Peoria Washing Machines.

BEST IN THE MARKET.
MADE WITH BALL-BEARINGS.

Have a Compound Lever Handle which greatly reduces the work of wash days. The motion used in vibrating the handle takes the strain from the back and lets the arms do the work with a great reduction in labor.
Send for Catalogue.
Secure the Agency.

CLARK, QUIEN & MORSE,
PEORIA, ILL.

THE ORIGINAL BRAMMER Rotary Washer.

An especially well made and light running machine and GUARANTEED TO GIVE SATISFACTION.
A simple, powerful and durable movement. This very substantial tub is made from a select quality of Cypress lumber.
Made also in the detachable leg style, as well as square.
We manufacture the most complete and satisfactory line of Washers on the market. Send for illustrated catalogue.

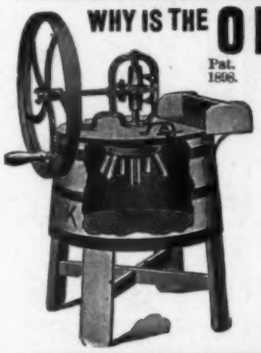
BENBOW-BRAMMER MFG. CO.,
1007 N. 13th Street,
FACTORIES: St. Louis, Mo., Davenport, Ia. **ST. LOUIS, MO.**

THE Peerless Flue Stopper

Steel wire springs instead of sheet iron stays.
Stays where you put it, and is absolutely soot and smoke proof.
Made either plain or decorated.
Send for miniature sample and prices.

Welling Manufacturing Co.,
Columbus, O.

WHY IS THE OK THE BEST ROTARY Washing Machine?



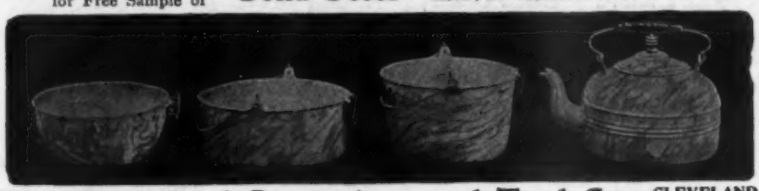
Pat. 1898.

BECAUSE

1.—It is the only Rotary Washer that has **Revolving Steel Ball Gearing**, reducing **the friction** and thus making machine so **light running** and almost **noiseless**.
2.—The tub is made of **Louisiana Red Cypress Lumber**, cherry finish; the legs are **solid with tub**, (not removable, breakable legs fastened with screws).
3.—The wheel turns right or left, pin wheel or dasher reverses automatically, turning the clothes back and forth through the hot soap-suds, and cleaning them without **rubbing** them to pieces.
4.—This washer is made by **experienced mechanics**, and will outlast any other washer on the market.
5.—The tub has a wringer box fastened with steel brackets.
6.—The lid on tub closes tight, **no escape of steam.**

MANUFACTURED BY
H. F. BRAMMER MFG. CO., Davenport, Iowa.

Send 10c. in Stamps for Free Sample of **"Solid-Steel" Lava Enameled Ware.**



The Cleveland Stamping and Tool Co., CLEVELAND, OHIO.

M. O. Miller, Cambria, Wis., writes: "Please discontinue my adv. in the want column of The American Artisan or I shall have to engage a stenographer."

Gee Whizz Washer

A Novelty and a Winner.
Does what it is intended and guaranteed to do.

Made without hoops or staves, will neither shrink, leak nor fall down. The labor saving washer of 20th Century. Our circular describes the reflex motion and tells why it whirls, rubs, slaps, squeezes and sucks the dirt out of the clothing.
You want the agency.
Write for particulars to

RANDLEMAN & SONS, Des Moines, Iowa.

HALF RATES

TO

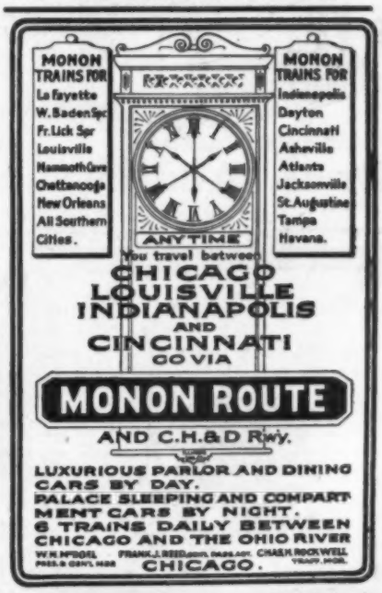
Wisconsin and Michigan Resorts

August 1st to 10th, the **Chicago, Milwaukee & St. Paul Railway** will sell excursion tickets from Chicago to the Summer resorts of Wisconsin and Michigan at rate of one fare (Minimum rate $4.00) for round trip, limit October 31st.

The list of resorts includes **Milwaukee, Waukesha, Palmyra, Madison, Kilbourn, Elkhart Lake, Pewaukee, Lakeside, Hartland, Nashotah, Oconomowoc, Sparta, Marquette, Houghton, Ontonagon, Sault Ste. Marie, St. Ignace, Minocqua** and **Star Lake.**

Through sleeping cars to Marquette, Calumet, Minocqua and Star Lake and frequent trains with parlor cars to nearby resorts.

Full information at Ticket Office, 95 Adams St., or at Union Passenger Station, Canal, Madison and Adams St.

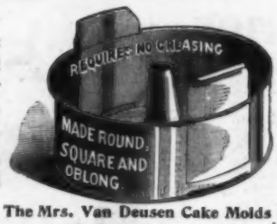


Advertising is the root of all money.

The Crusty Bread Pan.

The Mrs. Van Deusen Egg Whip.

The famous Mrs. Van Deusen Cake Molds and Other Household Specialties.



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Magnificent Sellers. Order Samples and you will Always Handle Them.

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Iwan's Perfection Wire Conductor Pipe Hanger.

Best Hanger Ever Invented.

Why It Is The Best:

1st. It holds pipe one inch from building to permit painting.
2d. It looks ornamental.
3rd. It can be used for frame or brick buildings.
4th. It can be used for round or corrugated pipe.
5th. It completely encircles the pipe, holding it firmly on all sides
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7th. It is cheaper than any other hanger.
8th. A tinner can put up more pipe in less time than with any other hanger.

The hanger can be tightened as desired by giving the eye a twist. For 2-inch corrugated pipe 2½ inch hanger is required. Other pipe runs uniform.

Also Manufacturers of Iwan's Chimney Top.

Write for Discounts.

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Standard Chain Company.

Chain of all Kinds.

Pittsburgh, Pa.

The O. K. Steel Brake.

THE O K Steel Brake

Prices for Our Regular Sizes:

No. 1—12 feet 1 inch on forming edge	.....	$ ——
" 2—10 " 1 " " " "	.....	250.00
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Discount and particulars on application.

Brakes for steel range work and other specialties to form up material from 10 gauge up.

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The best soldering furnace yet put on the market. We guarantee every furnace to be worked out of doors or on roofs in all kinds of weather. They are intended to supply a want long felt by Tinners, Plumbers, Electricians and Pattern Makers We have many kinds for many uses.

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BURGESS SOLDERING FURNACE CO.

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$6.00 Net.

Is the patriarch of our line, and is known wherever gasoline is used. We are proud of him and his numerous family, and send any one of them out with the understanding that if you are not pleased your money will be refunded. We have a booklet giving the pedigree of No. 1 Fire pot and family. **It is Free** and will enable you to select a fire that will be just what you want. Jobbers will supply at factory price.

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Just a Little Higher

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HIGHER IN QUALITY

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They can recommend them with clear conscience. Write for catalog.

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A Gas Stove Retailing for 25c.

With liberal discount to the trade.

Simple! Useful! Durable.

Always ready for heating water, milk, tea, curling irons, etc.

Can be transferred from one room to another.

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Place the stove over an ordinary gas burner and light on top of wire gauze.

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Write for it to-day.

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The wire netting being almost invisible flies do not see it and its strike makes no breeze to blow them away, so they are easily and quickly killed.

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Size 5x18 Inches.

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Kills flies without crushing; can be killed on finest fabrics without soiling them.

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METAL CEILINGS
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We Make Them.
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Steel Ceilings
ARE UP-TO-DATE AND
Easiest to Apply.
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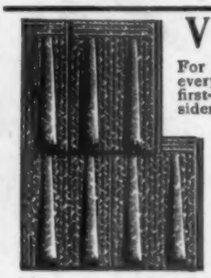
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For public buildings of every character where first-class roofing is a consideration, our galvanized
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is unequalled.
Deeply embossed.
Presents attractive appearance.
Telescope Side Lock.
Catalogue fully describes them.
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Hardware Dealers
Can Handle
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and do well for their customers and themselves. Send for catalogue—give diagram and description of room for an estimate and we will do the rest.
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The strongest, most durable and cheapest CUT-OFF on the market.
The only single Cut-off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.
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Never Dries Out or Cracks.
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STANDARD FOR QUALITY. (Lake Superior Copper.)
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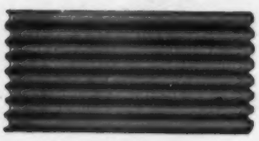
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We are large manufacturers of these goods and can save you money.
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"Your paper is a grand success. I believe no tinner or plumber should do without it. I try to keep up with the times and the only way is to find out what other shops are doing, and the way to do that is to take The American Artisan."

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for you to handle our Steel Ceilings and Side Walls, Conductor Pipe, Fire Proof Doors and Shutters, Cornice, Eaves Trough, Hangers, Tin Plate, etc.

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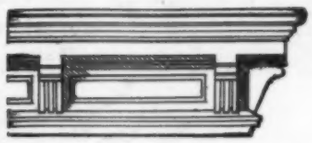

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IRON ROOFINGS.
SKYLIGHTS,
CORNICES,
CONDUCTOR PIPES,
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The Perfection Rain-Water Cut-off

EXCELS ALL OTHERS IN

SIMPLICITY—STRENGTH—DURABILITY

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Roofing Slate. Roofing Slate. Roofing Slate.

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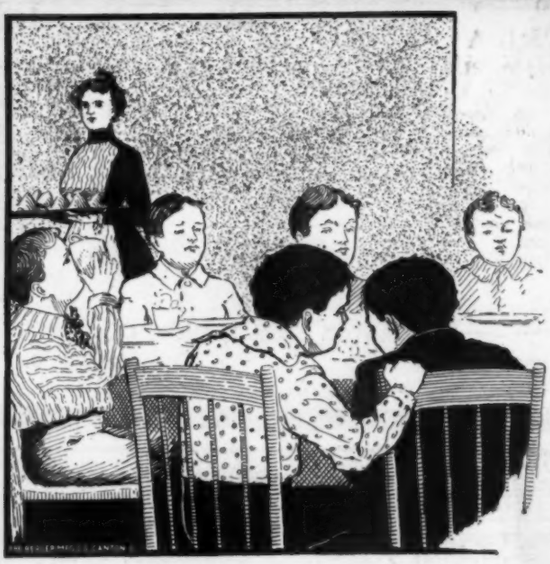
.... MANUFACTURERS OF ....
Laundry Tubs, Burial Cases, Urinal Stalls, Tiles, Genuine Bangor Roofing Slate and General Structural Slate.
EAST BANGOR, PENNSYLVANIA.



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If you expect to get your share of the metal ceiling trade, it will pay you to get into the field early.

Again there is no line you can get hold of that will give you as big an advantage as Berger's "Classik."

Berger's "Classik" is the right line for the up-to-date dealer.
It is the most complete and most artistic line of metal ceilings upon the market.
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It combines the mechanical excellence of sheet metal with the artistic effect of plastic relief.
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STORM PROOF. EFFECTIVE.

For Ventilating Churches, School Houses, Public Buildings, Residences, Barns; also, Cotton and Woolen Mills, Machine Shops, Foundries, Dye Houses, and Factories of All Kinds.

The Combination Skylight "Star" Ventilators gives light as well as ventilation. Write for booklet illustrating the Ventilator, and which contains full information regarding the merits of this device. Prices Named on Application.

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BEST IN THE WORLD.

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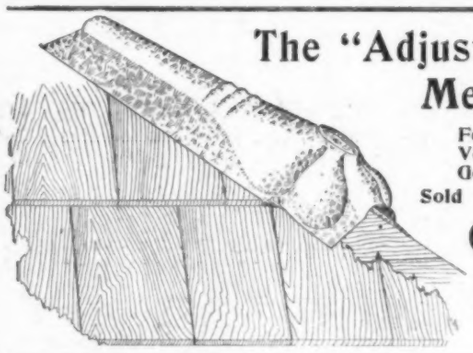

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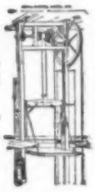

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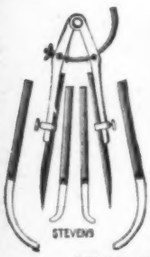

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